CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Nov. 13	Fair Oaks, Calif. ....Nov.	9
Nov. 14	Newport, Ky. ....Oct.	5
Nov. 14	Paris, Mo. ....Nov.	9
Nov. 15	Ossining, N. Y. ....Nov.	2
	Adv. Nov. 2 and 9.	
Nov. 15	Dallas, Tex. ....Nov.	2
Nov. 15	London, Ont. ....Nov.	9
Nov. 17	Long Island City, N. Y. ..Nov.	9
Nov. 17	New York, N. Y. ....Nov.	9
Nov. 20	Springfield, Mass. ....Nov.	2
	Adv. Nov. 2 and 9.	
Nov. 20	Phillipsburg, Kan. ....Nov.	9
Nov. 23	Auburn, Ind. ....Nov.	9
Nov. 24	Memphis, Tenn. ....Oct.	26
Nov. 27	Norfolk, Va. ....Nov.	9
	Adv. Nov. 9.	
Nov. 29	San Juan, Porto Rico....Oct.	19
	Adv. Oct. 12 to Nov. 9.	
Nov. 29	Bay St. Louis, Miss. ....Nov.	2
Dec. 1	San Juan, Porto Rico....Oct.	19
	Adv. Oct. 19 to Nov. 9.	

SEWERS

Nov. 13	Garfield Heights (Cleveland P. O.), O. ....Nov.	2
Nov. 13	Wash., D. C. ....Nov.	2
Nov. 14	Indianapolis, Ind. ....Oct.	26
Nov. 16	Jacksonville, Fla. ....Nov.	9
Dec. 11	New Orleans, La. ....Oct.	12
	Adv. Oct. 12 to Nov. 9.	

BRIDGES

Nov. 13	Pocatello, Idaho ....Nov.	6
Nov. 13	Milton, Fla. ....Nov.	9
Nov. 14	Milton, Fla. ....Oct.	19
Nov. 14	Denver, Col. ....Nov.	9
Nov. 15	New Jersey ....Nov.	2
	Adv. Nov. 2 and 9.	
Nov. 18	Berkeley, W. Va. ....Nov.	9
Nov. 20	Los Angeles, Calif. ....Nov.	9
Nov. 20	Pittsburgh, Pa. ....Nov.	2
Nov. 23	Virginia ....Nov.	9
	Adv. Nov. 9.	
Nov. 28	Little Rock, Ark. ....Nov.	9
	Adv. Nov. 2 and 9.	
Nov. 29	Phila., Pa. ....Nov.	2
	Adv. Nov. 2 and 9.	
Dec. 9	Yankton, S. D. ....Nov.	9
Dec. 12	Brunswick, Ga. ....Nov.	9
Jan. 23	Spokane, Wash. ....Sept.	21
Sept. 1, 1923,	Sydney, New South Wales, Australia ....Aug.	3

EXCAVATION, DRAINAGE, IRRIGATION

Nov. 13	Newark, N. J. ....Oct.	26
Nov. 15	Lake Providence, La. ....Nov.	2

STREETS AND ROADS

Nov. 13	Lewiston, Idaho ....Nov.	9
Nov. 14	Santa Rosa, Calif. ....Oct.	26
Nov. 14	Milton, Fla. ....Nov.	9
Nov. 14	Florida ....Nov.	9
Nov. 14	Massachusetts ....Oct.	26
Nov. 14	Louisiana ....Nov.	2
Nov. 14	West Virginia ....Nov.	2
Nov. 14	Sumner, Ia. ....Nov.	2
Nov. 14	Florida ....Nov.	2
Nov. 14	Boston, Mass. ....Nov.	8
Nov. 14	Grafton, Mass. ....Nov.	9
Nov. 14	Ashburnham, Mass. ....Nov.	9
Nov. 15	Oklahoma ....Nov.	9
Nov. 15	Brooklyn, N. Y. ....Nov.	9
Nov. 15	University (St. Louis P. O.), Mo ....Nov.	9
Nov. 15	Greenfield, Ia. ....Nov.	9
Nov. 15	Waterloo, Ia. ....Nov.	9
Nov. 15	Marlin, Tex. ....Nov.	9
Nov. 15	Ebensburg, Pa. ....Nov.	9
Nov. 16	Greenville, N. C. ....Nov.	2
Nov. 17	Tampa, Fla. ....Oct.	26
Nov. 17	Bernardsville, N. J. ....Nov.	2
Nov. 17	Michigan ....Nov.	9
Nov. 17	Long Island City, N. Y. ....Nov.	9
Nov. 18	Logansport, Ind. ....Oct.	26
Nov. 18	Bakersfield, Calif. ....Nov.	9
Nov. 20	Goderich, Ont. ....Oct.	19
Nov. 21	Pascagoula, Miss. ....Oct.	26
Nov. 21	Newton, N. J. ....Nov.	2
	Adv. Nov. 2 and 9.	
Nov. 21	New York ....Nov.	9
	Adv. Nov. 9.	
Nov. 21	Edinburg, Tex. ....Nov.	9
Nov. 23	Wilmington, N. C. ....Nov.	2
Nov. 27	Washington, N. C. ....Nov.	2
	Adv. Nov. 2 and 9.	
Dec. 5	Albert Lea, Minn. ....Nov.	9
Dec. 22	Spokane, Wash. ....Nov.	2
Dec. 30	Quebec ....Nov.	2
Dec. 30	Quebec ....Nov.	9
Jan. 7	Duluth, Minn. ....Sept.	28

BUILDINGS

Nov. 14	Theills, N. Y. ....Oct.	26
Nov. 14	Canandaigua, N. Y. ....Nov.	2
Nov. 15	Ocean City, N. J. ....Oct.	5
Nov. 15	Butler, Pa. ....Oct.	26
Nov. 15	Beaumont, Tex. ....Oct.	19
Nov. 15	Birmingham, Ala. ....Nov.	2
Nov. 15	Atlanta, Ga. ....Nov.	2
Nov. 18	Portland, Ore. ....Oct.	19
Nov. 20	Birmingham, Ala. ....Nov.	2
Nov. 20	Cleveland, O. ....Nov.	2
Nov. 21	Owen Sound, Ont. ....Nov.	2
Nov. 21	Detroit, Mich. ....Nov.	2
Nov. 22	Wash., D. C. ....Nov.	2
Nov. 22	San Antonio, Tex. ....Nov.	2
Nov. 24	Yonkers, N. Y. ....Nov.	9
	Adv. Nov. 9.	
Nov. 25	Bowling Green, O. ....Nov.	2
Dec. 1	Oil City, Pa. ....Oct.	26
Dec. 1	Abilene, Tex. ....Nov.	9
Jan. 2	Olean, N. Y. ....Nov.	9
Mar. 23	Shreveport, La. ....Nov.	9

FEDERAL GOVERNMENT WORK

Nov. 14	Hospital—Chillicothe, O. ....Oct.	12
	Adv. Oct. 19 to Nov. 9.	
Nov. 15	Quarters—Edgewood, Md. ..Nov.	9
	Adv. Nov. 9.	
Nov. 15	Radial Brick Stack—Tupper Lake, N. Y. ....Oct.	19
Nov. 15	Mechanical Equipment, etc. —Tupper Lake, N. Y. ....Oct.	19
Nov. 15	Water Tank—Tupper Lake, N. Y. ....Oct.	19
Nov. 15	Refrigerating and Ice-Making Equipment, etc.—Tupper Lake, N. Y. ....Oct.	19
Nov. 15	Coal and Ash Handling Equipment, etc. — Tupper Lake, N. Y. ....Oct.	19
Nov. 15	Post Office—Vernal, Utah ..Oct.	26
Nov. 15	Repairs — Moorhead City, N. C. ....Oct.	26
Nov. 16	Post Office—Shawnee, Okla.Oct.	26
Nov. 17	Re-roofing—Carville, La. ...Oct.	26
Nov. 20	Horses and Props—Huntington, W. Va. ....Oct.	26
	Adv. Oct. 26 to Nov. 9.	
Nov. 20	Steel Hull—Pittsburgh, Pa.Oct.	26
	Adv. Oct. 26 to Nov. 9.	
Nov. 20	Roof—Toledo, O. ....Oct.	26
Nov. 21	Roadway, Norfolk, Va. ...Nov.	2
Nov. 22	Covering Railroad Tracks—San Diego, Calif. ....Nov.	2
Nov. 23	Earthwork—St. Louis, Mo. ..Oct.	26
	Adv. Oct. 26 to Nov. 9.	
Nov. 23	Earthwork—St. Louis, Mo. ..Nov.	2
	Adv. Nov. 2 and 9.	
Nov. 24	Post Office—Chandler, Okla.Oct.	26
Nov. 25	Dredging—Charleston, S. C.Oct.	26
	Adv. Oct. 26 to Nov. 9.	
Nov. 25	Barges—Pittsburgh, Pa. ...Nov.	2
	Adv. Nov. 2 and 9.	
Nov. 25	Lock and Dam—Jacksonville, Fla. ....Nov.	2
Nov. 27	Dredge Hull, etc.—Milwaukee, Wis. ....Nov.	2
	Adv. Nov. 2 and 9.	
Nov. 27	Dredging — Jacksonville, Fla. ....Nov.	2
	Adv. Nov. 2 and 9.	
Nov. 27	Remodeling—St. Louis, Mo.Nov.	9
Dec. 1	Steel Hull—Pittsburgh, Pa.Nov.	9
	Adv. Nov. 9.	
Dec. 1	Barge—Montgomery, Ala. ..Oct.	26
	Adv. Oct. 26 to Nov. 9.	
Dec. 1	Dredging—Honolulu, H. T. .Nov.	2
Dec. 2	Boilers—Memphis, Tenn. ...Nov.	2
	Adv. Nov. 2 and 9.	
Dec. 2	Barges—Memphis, Tenn. ...Nov.	2
	Adv. Nov. 2 and 9.	
Dec. 2	Machinery — Memphis, Tenn. ....Nov.	2
	Adv. Nov. 2 and 9.	
Dec. 4	Power Houses—Cape Henry, Va. ....Nov.	9
	Adv. Nov. 9.	
Dec. 6	Pumping Units — Boise, Idaho ....Oct.	19

MISCELLANEOUS

Nov. 13	High School Equipment—Wash., D. C. ....Oct.	12
Nov. 13	Cement, Fire Clay, etc., Philadelphia, Pa. ....Nov.	9
Nov. 14	Broken Trap Rock Stone, etc. —New York, N. Y. ....Nov.	9
Nov. 14	Sprinkler System — Aberdeen, Wash. ....Nov.	9
	Adv. Nov. 2 and 9.	
Nov. 14	Fire Service Pipe & Valves—Toronto, Ont. ....Nov.	9
Nov. 15	Asphaltic Wearing Surface Sand—New York, N. Y. ...Nov.	9
Nov. 15	Road Equipment—Illinois. .Nov.	9
	Adv. Nov. 9.	
Nov. 16	Heating and Ventilating Apparatus, etc. — Brooklyn, N. Y. ....Nov.	9
Nov. 16	Hoist and Trailers — San Jose, Calif. ....Oct.	19
Nov. 16	Steel Shed—New Orleans, La. ....Oct.	26
Nov. 21	High School Equipment—Wash., D. C. ....Oct.	12
Nov. 21	Lumber—Ocean City, N. Y.Nov.	2
	Adv. Nov. 2 and 9.	
Nov. 21	Underpasses, etc. — North Carolina ....Nov.	9
Nov. 24	Shaft—Brooklyn, N. Y. ...Nov.	2
Nov. 27	Electrical Work, Plumbing, Heating, etc. — Johnstown, Pa. ....Nov.	2
Dec. 18	Coal Handling Plant — Melbourne, Victoria, Australia ....Sept.	21
Jan. 1	Transmission Line—Spokane, Wash. ....Nov.	9

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

O., Madison—Plans water and sewerage systems. $75,000. M. Knowles, Inc., Hanna Bldg., Cleveland, engrs.

Mich., North Muskegon—(Muskegon P. O.)—Takes new bids about February, pumping station. $20,000. Former bids rejected. Hoad, Decker, Shoecraft & Drury, 302 South State St., Ann Arbor, engrs. Noted Sept. 14.

Tex., Dallas—Plans main extension and improvement. $25,000. G. Fairtree, city engr.

Tex., Ft. Worth—Plans to vote on $3,000,000 bonds latter part of month, for water and sewerage systems in 12 new wards. J. B. Hawley, consult. engr., Cotton Exch. Bldg., recommends at least $1,000,000 for water. Filter beds must be overhauled and additions built. D. L. Lewis, city engr.

Okla., Weleetka—Had plans prepared and soon takes bids rein.-con. reservoir and concrete spillway. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., Stockton—Nov. 28, to vote on $1,300,000 bonds constructing Valley Spring reservoir on Calaveras River. W. B. Hogan, city engr.

Calif., Tracy—Plans election to vote on $27,000 bonds for 4 and 6 in. w.i. water-main replacements and extensions. W. D. Harrington, city engr.

N. S., Sydney Mines—Nova Scotia Steel & Coal Co. plans pumping plant. $85,000. Private plans.

Ont., Kingston—Plans slow sand mechanical filtration plant, concrete and brick. $350,000. H. Dick, city engr.

Ont., Toronto—York Twp. plans 6 in. c.i. water mains in Maryland and Ovonlea Blvds., Almeda, Millbank, Rotherham, Dentonia Park, Eastborune, Sibley, Thyra, Lassel, Glebmount, Barrington and Muriel Aves. $25,000. F. Barber, 40 Jarvis St., Toronto, engr.

BIDS DESIRED

N. Y., Long Island City—Nov. 17, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Ditmars, Gould and Harold Aves., Crescent, Hallet, Howland and Lowery Sts., 1st Ward; Laburnum, Smart, 7th, 9th and 72nd Aves., 16th, 17th, 18th and 127th Sts., Ave. D and Washington Pl., 3rd Ward;

Waterworks (Continued)

Griffith, Hull, Pleasantview and Wooley Aves., Gwyder, Larch, Mazeau, Van Horn and Woodbine Sts. 2nd Ward, here.

N. Y., New York — Nov. 17, by **N. J. Hayes**, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains and appurtenances in Mosholu Parkway N., Eastern Blvd., Herkimer and Knox Places, Bogart, Bronxwood, Grand, Haight, Hill, Hobart, Hollywood, Hone, Ludlow, Mahan, Monticello, Noble, Riverdale, Sackett and Van Nest Aves., West 174th and East 233rd Sts., Bronx Boro.

Va., Norfolk—Nov. 27, at office W. H. Taylor, 3rd dir. Pub. Wks., 12,000,000 gal. pumping engine. D. H. Maury, 1445 Monadnock Blk., Chicago, consult. engr.; adv. this issue.

Ind., Auburn—Nov. 23, by City at office of G. Potter, city clk., for purchase, installation and complete construction of machinery and general equipment for improvement of waterworks, electric light and power plant, incl. incl. three 500 kva. transformers, 1 generator switch-board panel, 1 centrifugal pump, 700 gal. per minute capacity, one 75 hp. synchronous motor.

Kan., Phillipsburg—Nov. 20, by W. N. McIlvain, city clk., improving waterwork system, Sect. 1, includes filtration plant, two 8 x 8 ft. units and necessary settling basins, 200,000 gal. clear well, connection to city mains, sewers, etc., involves 1,450 cu.yd. excav., 537 cu.yd. rein.-con., 1,300 ft. 8 in. c.i. and 470 ft. 6-12 in. vit. pipe, etc.; Sect. 2, furnishing and installing necessary filter equipment for two 8 x 8 ft. filter units; Sect. 3, furnishing f.o.b. here, 4 centrifugal pumps. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

Mo., Paris — Nov. 14, improving waterworks system incl. 2,000 ft. 4 and 6 in. c.i. pipe and 6 fire hydrants, also improving electric light system, incl. new distribution and white way system. W. B. Rollins, Ry. Exch. Bldg., Kansas City, engrs. Noted Oct. 26.

Tex., Dallas—City Comn. taking bids 10,000 ft. 20 in. c.i. pipe in Haskell Ave., South Dallas. G. Fairtrace, city engr. J. R. Johns, 128 West Brooklyn St., engr.

Calif., Fair Oaks—Nov. 13, by secy. Fair Oaks Irrigation Dist., furnishing riveted steel slip joint, dipped and soil protected water pipe, 1,400 ft. 14 in., 12 gauge; 4,300 ft. 12 in., 4,200 ft. 10 in. and 1,100 ft. 9 in., 14 gauge; 9,100 ft. 8 in., 1,100 ft. 7 in., 3,800 ft. 6 in. and 4,300 ft. 4 in., 16 gauge. S. Kieffer, 57 Post St., San Francisco, engr.

Ont., London—Nov. 15, by S. Baker, city clk., one motor pumper, 800 gal. per minute, with 40 gal. chemical tank and 1,250 ft. 2½ in. fire hose.

BIDS RECEIVED

Calif., Delhi—See "Miscellaneous."

CONTRACTS AWARDED

N. Y., Elmsford—Bd. Village Trustees, Lawn Ave., extending mains to T. M. **Hughes & Co., North Tarrytown, $56,304.** Noted Oct. 26.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains on subway bridge over Bronx River, and on highway bridge over New York, New Haven & Hartford R.R., also on Westchester Ave. and Edgewater Rd., to Beaver Eng. & Contg. Co., 57 Chambers St., $10,080. Noted Oct. 12.

Mo., Hamilton—Complete new waterworks system, to C. H. Everett, Hutchinson, Kan., $68,488.

Mo., Milan—For purification plant and extending mains, to J. J. Hoffman, Milan, $13,401 and $29,000 respectively. Noted Oct. 26.

Tex., Coleman—See "Dams."

Sewers

PROPOSED WORK

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., withdrew bids which were to be opened Oct. 23, repairing outlet flume from Jamaica Sewage Disposal Plant to creek flowing into Jamaica Bay; also sewer in 137th and 25th Sts. Will readvertise. Noted Oct. 19.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., rejected bids opened Oct. 24, sewer in Odell St. Will readvertise. Noted Nov. 2.

N. J., South River—Plans 3,800 ft. trunk sewer in Hillside Ave. $28,000. C. C. Armstrong, South River, engr.

O., Madison—See "Waterworks."

Mich., Ferndale—Plans 10,000 ft. lateral sewers in Rockwell Ave. and various other streets, incl. 3,000 ft. 10 in., 3,000 ft. 12 in. and 4,000 ft. 15 in. vitr. or concrete pipe. $40,000. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Ia., Washington — Making plans sewers and disposal plant. $200,000. Buell & Co., 205 Davidson Bldg., Sioux City, engrs.

Kan., Syracuse—Had plans prepared and soon takes bids complete new sewerage system. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs.

Tex., Ft. Worth—See "Waterworks."

Calif., Pomona—Plans to vote on $100,000 bonds for new outfall sewer and first unit of disposing system. F. C. Froehde, city engr.

Calif., Tracy—Plans election to vote on $50,000 bonds for sewage disposal plant, Imhoff tank, etc. W. D. Harrington, city engr.

BIDS DESIRED

Fla., Jacksonville—Nov. 16, by City Comn., storm water and sanitary sewers, 26,991 ft. 12 to 54 in. rein.-con. pipe, 29,426 ft. 6 to 15 in. terra cotta pipe, 58,136 ft. 4 in. sub-drain tile and cinders, 184 ft. 8 in. c. i. pipe, 165 storm and sanitary manholes. W. E. Sheddan, city engr.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., opened bids Oct. 31, sewers in (1) Barclay St., (2) Orontes Ave., (3) Depot Rd. (4) 88th St. (5) 106th St., from Kennedy & Smith, 93 Amity St., Flushing, (1) $2,885, (3) $2,515, (4) $16,987, (5) $2,517; Greene Contg. Co., 734 Vernon Ave., Astoria, (1) $3,122; Peace Bros., 57 North Laurence St., Flushing, (1) $3,293, (2) $2,689, (3) $2,722; G. Ingressia, Corona, (2) $2,476; E. J. Keeley, Jr., (2) $2,797, (3) $2,775; D. A. Gross, (4) $18,107; C. Napolitano, (4) $18,590, (5) $2,480; Spinellas & Muccini, 6102 18th Ave., Brooklyn, (5) $2,452. Noted Oct. 26.

Utah, Salt Lake City—Sewers in Farmers Ward, 30,000 ft. 8 to 36 in. vitr. or concrete pipe, from J. L. Griffith, Kearns Bldg., $126,674; S. Weber, Cullen Hotel, $136,427; Mullins & Palm, Salt Lake City, (street address not available), $136,756. Noted Sept. 28.

CONTRACTS AWARDED

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewer in Waterbury Ave., to Anita Constr. Co., 2975 Marion Ave., $7,172. Noted Nov. 2.

N. Y., Rochester—See "Streets and Roads."

Mich., Detroit—Southern Ave. Arm of Lonyo Rd. Sewer and Lawton Ave. Arm of Morrell St. Sewer, to J. A. Mercier, 216 Hammond Bldg., $33,723, and $34,941 respectively. Noted Nov. 2.

Mich., Springwells—Sect. 16 Barclay Ave. Sewer, to R. A. Mercier, 5435 Wesson Ave., Detroit, $145,000; Sect. 17, Maple Rd. Sewer, Sect. 18, Dix Ave. Sewer and Sect. 19, Eagle and Ford Ave. Sewers, to Liberty Constr. Co., 1026 Book Bldg., Detroit, $8,359, $19,637 and $9,956 respectively. Noted Nov. 2.

Wis., Milwaukee—Sewerage Comn., 508 Market St., furnishing feed water softener and purification system, using zeolite cold process, to Wayne Pump & Tank Co., Anthony Hotel, Ft. Wayne, Ind., $10,810. Noted Oct. 12.

Ia., Dubuque—For 6,285 lin.ft. 24-66 in. sanitary sewers in Dist. 1 and 2,860 lin.ft. 24-27 in. in Dist. 2, to Even-Uhlrich, Stoner Co., Dubuque (street address not available), and Natl. Constr. Co., 309 Putnam Bldg., Davenport. Noted Oct. 19.

Minn., Waseca — Additions to sewerage system: 30,000 lin.ft. outlet sewer, to Reinertson & Patterson, Springfield, Mo., $68,438; storm sewer to Rafdal & Curtis, Medford, $11,777; disposal plant to Ward & Weighton, 510 Davidson Bldg., Sioux City, Ia., $19,720. Noted Sept. 21.

Mo., Odessa—For 35,000 ft. 8 in. sewer, cut 8 ft., and erecting small pumping plant, to Merkle Mchy. Co., 1733 Walnut St., Kansas City, $45,000.

Mo., St. Louis—See "Streets and Roads."

Mo., University (St. Louis P. O.)—C. Crane Willmore Corp., Boatmens Bank Bldg., St. Louis, 11,600 ft. 12-30 in. vitr. clay and 400 ft. 63 in. segmental block sewer in 1st section of University Park subdivision, to McKelvey Constr. Co., 911 Guaranty Bldg., St. Louis, $30,000. Expect to contract on same unit basis for an additional 30,000 ft. in spring, costing $75,000.

Waste Disposal

CONTRACT AWARDED

W. Va., Charleston—Construct[illegible] garbage incinerator, to Markham Eng. Co., 11 West Monroe St., Chicago, Ill., $55,550. Noted Oct. 12.

Bridges

PROPOSED WORK

N. Y., Idlewood (Lake View P. O.)—Towns of Hamburg and Evans take bids in about 2 weeks 178 ft. steel span bridge with concrete floor to replace present structure over 18 Mile Creek, on Lakeshore Rd., here. $30,000. G. C. Diehl, 575 Ellicott Sq., Buffalo, engr.

N. J., Trenton—Mercer Co., 400 ft. plate girder viaduct, incl. 75 ft. lift span, over Delaware and Raritan Canal, and tracks of Pennsylvania R.R. on Olden Ave., to L. J. Sieling, Broad St., Phila., $208,902. Noted Oct. 19.

Va., Richmond—Boulevard Bridge Corp. plans steel and concrete bridge over James River from Bird Park to Chesterfield Co. line, 20 ft. road bed, two 5 ft. sidewalks, $175,000. Under supervision of A. J. Saville, dir. of Pub. Wks.

W. Va., Berkeley—Nov. 18, by Comrs. Morgan Co., rein.-con. bridge across Sleepy Creek at point between Baltimore and Ohio R.R. Bridge and nearest ford to said bridge, 105 ft. long, 14 ft. wide, elevation above bed of creek 25 ft.; alternative bids on steel bridge across Sleepy Creek near Baltimore and Ohio R.R. bridge using abutments now discarded, incl. 18 ft. pier, one 125 ft. and one 107 ft. spans, 14 ft. wide, rein.-con. roadway. M. S. Harmison, clk.

Alabama—See "Streets and Roads."

Minn., Thief River Falls—Plans 400 ft. steel bridge over Red Lake River. $50,000. A. H. Akre, clk. Engineer not announced.

Calif., Napa—Napa Co. had plans prepared and takes bids in spring, 2 rein.-con. bridges over Dry Creek, 10 mi. north of here, 120 cu.yd. concrete, 23,300 lb. reinforcing, 300 cu.yd. fill at approaches; rein.-con. bridge over Napa River near Wassum Ranch, 850 cu.yd. concrete, 160,000 lb. reinforcing, 1,200 cu.yd. excav., 2,200 cu. yd. fill. C. H. Buckman, co. surv.

Calif., Santa Ana—Orange Co. had plans prepared bridge over Santa Ana River, 524 ft. long, 24 ft. wide, three 60 ft. spans in center with concrete piers. J. L. McBride, Santa Ana, engr.

BIDS DESIRED

Virginia—Nov. 23, by State Hy. Comn., Richmond, repairing bridge, Route 8, Project S-102; bridges Route 13, Projects S-215 A and B, Route 10, Project F-76 A; improving roadway Route 7Y, Project S-216, Route 7, Project S-185; Route 5, Project F-160A. E. C. Coleman, Richmond, highway comr.

Ga., Brunswick—Dec. 12, by St. Simons Highway Comn., bridges and fills from mainland to St. Simons Island, Contr. 1, clearing and 128,000 cu.yd. embankment; Contr. 2, 75,000 lin.ft. creosoted piling, 805,000 ft. b.m. creosoted timber bridging and 12,000 sq.yd. riprap; Contr. 3, two 208 ft. steel swing spans; Contr. 4, 4,800 cu.yd. clay gravel. S. B. Slack, Atlanta, state bridge engr.

Fla., Milton—See "Streets and Roads."

Fla., Milton—Nov. 14, by Bd. Comrs. Santa Rosa Co., 80 ft. steel bridge over Pond Creek on State Rd. 1; 18 ft. I beam rein.-con., slab floor, over Till Bayou. C. H. Overman, Bagdad, co. engr.

S. D., Yankton—Dec. 9, by Meridian Hy. Bridge Co., steel superstructure for 5,820 lin.ft. double deck bridge over Missouri River, span length 1,680 ft. $250,000. Former bids rejected. Harrington, Howard & Ash, Orear Leslie Bldg., Kansas City, Mo., engrs. Noted March 2.

Ark., Little Rock—Nov. 28, by Bd. Comrs. Pulaski Rd. Imprt. Dist. 10, 4 bridges. D. A. MacCrea, ch. engr.; adv. this issue.

Col., Denver—Nov. 14, by Manager of Impvts. and Parks, foundation only bridge on 16th St., from Blake to Platte Sts., incl. 1,025 cu.yd. dry excav. for abutments, 3, 100 cu.yd. dry excavation for pedestals, 1,870 cu.yd. dry excav. for river piers, 100 cu.yd. wet excav. for pedestals, 990 cu.yd. wet excav. for river piers, 500 lin. ft. piling for pedestals, 7,000 lin.ft. piling for river piers, 630 cu.yd. rein.-con. in abutments, 2,685 cu.yd. rein.-con. in river piers, 2,000 cu.yd. rein.-con. in pedestals, 25,000 lb. reinforcing in abutments, 38,000 lb. reinforcing in river piers, 41,000 lb. anchor rods in pedestals. $420,000. H. S. Crocker, Tramway Bldg., engr.

Bridges (Continued)

Idaho, Pocatello—Nov. 13, by P. B. Wilson at office Comrs. Bannock Co., one 90 ft. bridge, ¾ mi. approaches, on Federal Aid Project 59, near here, 67,000 lb. steel, 19,450 lb. reinforced steel, 14,000 cu.yd. earth and 1,340 cu. yd. rock excav., 304 cu. yd. concrete, 1,800 cu. yd. gravel surfacing, etc. Cost to exceed $25,000. Director of Bureau Highways, Boise, engr.

Calif., Los Angeles—Nov. 20, by Bd. Supervs. Los Angeles Co., bridge on State Highway over mouth of San Gabriel River at Alamitos Bay; bridge on State Highway over Topanga Creek. L. E. Lampton, clk.

BIDS RECEIVED

S. C., Columbia—Richland Co., constructing 2 concrete bridges on Monticello Highway, from General Road & Drainage Co., Liberty Bank Bldg., $26,012; Concrete Constr. Co., 1325 Main St., $26,325; White Constr. Co., Chatham, Va., $29,140.

Ill., Sterling — Whiteside Co. 1,032 ft. rein.-con. arch bridge on 1st Ave. over Rock River, 28 ft. roadway, two 7 ft. sidewalks, (1) State plan, twelve 80 ft. spans, from Powers-Thompson Constr. Co., Joliet, $171,600, J. Moroff & Son, Kankakee, $184,257, Gould Constr. Co., Davenport, Ia., $187,400; (2) Marsh plan, eleven 86 ft. spans Koss Constr. Co., 2818 5th St., Des Moines, Ia., $198,732, Miller-Fifield Constr. Co., L. & J. Bank Bldg., Waterloo, Ia., $219,534, F. E. Marsh & Co., Jefferson, Ia., $206,050. Noted Oct. 26.

CONTRACTS AWARDED

S. C., Anderson — See "Streets and Roads."

Fla., St. Petersburg—Gandy Bridge Co. 5 mi. bridge across Tampa Bay from Port Tampa to St. Petersburg Highway, 13,500 ft. rein.-con. and 15,000 ft. sand fill, to Bay Constr. Co., St. Petersburg, $2,000,000.

Alabama—See "Streets and Roads."

Ia., Davenport—Supervs. Scott Co., 1 pony truss three-90 ft. spans, to J. R. Kane, Charlotte, $27,300; 1 pony truss 70 ft. span, to L. Plumb, Wapello, $5,950.

Ia., Elkader—Supervs. Clayton Co., 5 steel truss bridges, each to have 80 ft. span, one steel truss, with two 90 ft. spans with one 30 ft. I beam approach span, to A. Olson Constr. Co., Waterloo, $86,000.

Ia., Toledo—Supervs. Tama Co., bridges on Primary Rd. Project 276, Group A, one steel truss bridge having three 70 ft. spans, and 2 bridges having two 70 ft. spans, to A. P. Munson, Marion, $47,000; Group B, C and D, one 24 x 24 ft., one 40 x 20 ft., one 32 x 24 ft. and one 28 x 24 ft. I beam bridges, 46 rein.-con. box culverts, 11 rein.-con. culverts and extensions, to Cole Bros., Ames, $41,700.

Wyoming—State Hy. Comn., Cheyenne, 3 concrete bridges, each 104 ft. long, and some grading on Federal Aid Project 116, Sect. A, southwest of Clearmont, Sheridan Co., to J. F. Turpin, Wheatland, $29,104. Engrs. est. $30,000. Noted Oct. 19.

Dams

PROPOSED WORK

S. C., Waneta—Waneta Power Co., takes bids in 1923 for 4,000 hp. diversion dam 40 ft. high, 75 ft. wide, 115 ft. head, in connection with hydro electric development. Total $3,000,000. E. K. Scott, Waneta, engr.

CONTRACTS AWARDED

Tex., Coleman—Earthen dam, spillway, pump house, 155,000 cu.yd. excav., 23,000 ft. 10 in. c.i. pipe, etc., to Tibbetts Constr. Co., 8th St., Ft. Worth, $114,272. Noted Oct. 12.

Railways

PROPOSED WORK

Tennessee—Louisville & Nashville R.R., Traction Bldg., Louisville, Ky., making plans 18 mi. double track. $2,000,000. W. H. Courtenay, Louisville, ch. engr.

Texas—Dallas Ry. Co., Interurban Bldg., Dallas, plans street car line extensions on Lindsley Ave. also on 7 blocks Haskell Ave. from State to Cole Sts. $500,000. R. Meriwether, vice pres. and genl. mgr.

CONTRACTS AWARDED

New York—Transit Comn., 49 Lafayette St., New York City, constructing Sect. 3 of Route 52, part of Rapid Transit R.R., Flushing Route, to Oakdale Contg. Co., Harris and East Aves., Long Island City, $1,635,951. Noted Nov. 2.

Excavation, Drainage, Irrigation

PROPOSED WORK

Fla., Lake Worth — Lake Worth Inlet Dist. Comn. plans election Nov. 28 to vote on $275,000 bonds, dredging inlet from Lake Worth to Atlantic Ocean, to depth of 18 ft.

Ia., Ft. Dodge — Supervs. Webster and Greene Counties rejected bids opened Oct. 17 for Joint D.D. 212 Webster Co. and D.D. 105 Greene Co. Noted Oct. 12.

Mont., Havre—Hill Co. plans to improve Marais River Irrigation Project, 250,000 acres west of here. $500,000. W. G. Paterson, co. clk.

Mont., Ryegate—Golden Valley Co. plans 23 mi. canal in Fish Creek Irrigation Dist., southwest of here. $275,000.

Mo., Clayton—St. Louis Co. River Impvt. Assn., c/o B. Hoekstra, member Bd. Supervs., plans levee and straightening Missouri River between Franklin Co. line and St. Charles so as to throw current to north bank between those points. Will provide protection for 12,000 acres. $150,000-$200,000. W. Elbring, Clayton, engr.

Tex., Dallas — Dallas Impvt. Dist. 5, Court House, plans election soon to vote on $275,000 bonds for 3 mi. of levee and lateral ditches. A. A. Stiles, Austin, state reclamation engr.

Calif., Willows—Jacinto Irrigation Dist. plans drainage improvements. $100,000.

BIDS DESIRED

Va., Richmond — See "Miscellaneous" under proposed work.

CONTRACTS AWARDED

Fla., West Palm Beach—Highland Glades D. D., 20 mi. canals and 63 mi. ditches, 1,430,000 cu.yd. excav., to South Florida Dredging Co., Ft. Lauderdale, $0.0874 per cu.yd.

Mo., Browning—Locust Creek D.D. for drainage system, to Callahan-Walter Constr. Co., 322 Peters Bldg., Omaha, Neb., $325,000.

Streets and Roads

PROPOSED WORK

N. C., Shelby—Plans street and sidewalk paving. $125,000.

Fla., Lakeland—J. T. Horney, Asheville, N. C., soon takes bids constructing 5 mi. streets, and probably waterworks, sewerage and lighting systems, Horney Heights Rds., here. Engineer not selected.

Fla., Tavares—City plans paving 2 mi. road, 24 ft., 2 in. asphalt on 6 in. clay. $32,000. E. J. Close, Tavares, engr.

Alabama—State Hy. Dept., Montgomery, having plans prepared grading, gravel surfacing and 624 ft. creosote timber bridges, on 10.4 mi. Montgomery-Union Springs Rd., Bullock Co.; grading and gravel surfacing 10.032 mi. road from Evergreen to Belleville, Conecuh Co., $143,000; grading and surfacing with chert 16.37 mi. Oneonta-Birmingham Rd., from Oneonta to Birmingham Co. line, Blount Co., $205,000; grading and surfacing with sand clay and clay gravel 21.44 mi. Bee Line Highway from Florida State line to Dale Co. line across Houston Co., $197,000. W. S. Keller, state highway engr.

La., New Orleans — Plans election in November to vote on $5,000,000 bonds for development, extensions, additions and betterments of Public Belt Rd. System. G. Ferrier, Jr., clk. comn. council.

O., Dayton—Plans paving, etc., 1,800 ft. Irwin St. from 3rd to Springfield Sts., 30 ft., $24,977 also 970 ft. Summit St. from Negley to Riverside Sts., 30 ft., $11,420. Work involves 2,500 lin. ft. cement curb and gutter, 9,800 sq. yd. vitr. brick. I. E. Houk, city engr.

Michigan—State Hy. Dept., Lansing, soon takes bids grading and surfacing 14¾ mi. Federal Aid Project 62, 20 ft., concrete, Wayne Co. F. F. Rogers, state highway comr.

Ill., Batavia—Making plans brick, asphalt and concrete paving projects. $65,000. Wells Eng. Co., Geneva, engrs.

Ia., Harvard — Plans paving 8 blocks. $25,000. C. R. Tarut, clk.

Kan., Oskaloosa—Jefferson Co. soon takes bids surfacing 10.75 mi. Federal Aid Project 48, Sect. C, 18 ft. bituminous macadam. W. M. Irwin, Oskaloosa, engr.

Neb., Omaha—Takes bids in December asphaltic paving 22 blocks. $250,000. H. Beal, city engr.

South Dakota—State Hy. Dept., Pierre, plans grading and gravel surfacing 9 mi. Federal Aid Project 120, Moody Co., 63,000 cu.yd. excav., 315 cu.yd. concrete, 13,500 cu.yd. gravel, $64,400; 6.11 mi. Federal Aid Project 124, Codington Co., 9,200 cu. yd. gravel, $35,500. F. D. Hudgins, state engr.

Wyoming—State Hy. Dept., Cheyenne, rejected bids grading and building culverts on 7.8 mi. Yellowstone Highway between Bonneville and Boysen. Sect. A, Federal Aid Project 118, Fremont Co. Noted Oct. 19.

Missouri—State Hy. Dept., Jefferson City, plans 4.482 mi. road through St. Genevieve Co., State Project Route 25, Sect. 5, 5,397 cu.yd. earth and 2,307 cu. yd. rock excav., 1,761 cu. yd. borrow, 16,480 lin. ft. grading, 10,647 cu. yd. gravel surfacing ¼ mi. haul, 18,632 cu. yd. gravel surfacing additional ¼ mi. haul, 1,588.8 cu. yd. concrete masonry, etc.; 1.279 mi. road from Hartville to Mansfield, State Project Route 5, Sect. 86, Wright Co., 6,750 lin. ft. grading, 2,362 cu. yd. gravel surfacing ¼ mi. haul, 49,989 cu. yd. gravel surfacing additional ¼ mi. haul, 12 ft. wide; 4.991 mi. road from Excelsior Springs to Carroll Co. line, 26 ft., State Project Route 10, Sect. 14, Ray Co., 11,033 cu. yd. earth excav., 25.9 cu. yd. concrete masonry, etc.; 2.244 mi. road from St. Louis to Springfield, State Project Route 14, Sect. 77, St. Louis Co., 16,214 cu. yd. earth excav., 202 cu. yd. borrow, 23,699 sq. yd. concrete pavement, 18 ft., 2,699.2 cu. yd. concrete masonry, etc.; 5 mi. road through De Kalb Co., State Project Route 31, Sect. 1, 20,477 cu. yd. earth excav., 3,754 cu. yd. borrow, 208.9 cu. yd. concrete masonry, etc.; 4.606 mi. road on Kingshighway, State Project Route 25, Sect. 12, Perry Co., 13,681 cu. yd. earth excav., 404 cu. yd. borrow, 11,161 cu. yd. gravel surfacing ¼ mi. haul, 254,334 cu. yd. gravel surfacing additional ¼ mi. haul, 44.7 cu. yd. concrete masonry, etc.; 4.489 mi. road from Elsinore to Poplar Bluff, State Project Route 16, Sect. 74, Carter Co., 18,604 cu. yd. earth excav., 1,224 cu. yd. borrow, 67.4 cu. yd. concrete masonry, etc.; 3.094 mi. road from Carter Co. line to Elsinore, State Project Route 16, Sect. 73, Carter Co., 17,725 cu. yd. earth excav., 3,160 cu. yd. borrow, 78.3 cu. yd. concrete masonry, etc.; grading 1.942 mi. and surfacing 1.338 mi. road through Linn Co., State Project Route 5, Sect. 15, 9,882 cu. yd. earth excav., 590 cu. yd. borrow, 3,957 cu. yd. sledged stone base, 3,957 cu. yd. sledged stone base ¼ mi. haul, 68,364 cu. yd. sledged stone base additional ¼ mi. haul, 424 cu. yd. waterbound macadam, 424 cu. yd. waterbound macadam ¼ mi. haul, 7,324 cu. yd. waterbound macadam additional ¼ mi. haul, 1,389 cu. yd. crushed stone, 1,389 cu. yd. crushed stone ¼ mi. haul, 27,468 cu. yd. crushed stone additional ¼ mi. haul, 33,210 gal. binder, 54.5 cu. yd. concrete masonry, etc. B. H. Piepmeier, state highway engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, rejected bids opened Oct. 24 reconstructing 2,257 ft. Easton Ave., 50 ft. Noted Nov. 2.

Tex., Benjamin—Knox Co. making plans grading 4.11 mi. Benjamin Sagerton Rd., 24 ft. $25,000. L. Noland, Knox City, co. engr.

Tex., Bonham—Fannin Co. making plans grading and gravel surfacing 8 mi. Bonham-Honey Grove Rd., 18 ft., 111,600 cu. yd. earth excav., 1,025 cu. yd. concrete, 70,000 lb. reinforcing, 13,540 cu. yd. gravel surfacing. $80,000. A. J. Goode, co. engr.

Tex., Boston—Bowie Co. had plans prepared grading and gravel surfacing 16.8 mi. State Highway 1, from Cass Co. line to Corley, 16 ft. $205,000. Hess & Skinner, Southwestern Life Bldg., Dallas, engrs.

Tex., Dallas — City Comn. opens bids about Nov. 15, improving 9 blocks Haskell Ave. from State to Cole Sts., 30 ft., 4,850 lin.ft. curb and gutter, 10,892 sq.yd. wood block or bitulithic asphalt. $46,964. G. Fairtrace, city engr.

Tex., Dallas — City Comn. opens bids about Dec. 1, improving 10th St. from Rosemond to Boundary, 30 ft., 3,800 lin.ft. combined curb and gutter, 11,276 sq.yd. wood block or Uvalde rock asphalt. $50,419. G. Fairtrace, city engr.

Tex., Jasper—Jasper Co. making plans surfacing road already graded 12.3 mi. State Highway 7 from point 8 mi. west of here to Angelina Co. line, 16 ft., $128,835; gravel surfacing 6.5 mi. State Highway 8 from Hortons Switch to Sabine Co. line, 16 ft., 68,200 cu. yd. gravel, $51,600. C. P. Hunter, co. engr.

Streets and Roads (Continued)

Tex., Palestine—Anderson Co. election Nov. 20 to vote on $150,000 bond issue improving highways. C. Stewart, co. judge.

Tex., Paris—Lamar Co., making plans gravel surfacing 9.24 mi. State Highway 19 south of here, 12 ft., 8,124 cu. yd. gravel, 12,984 cu. yd. sledged rock. $75,200. W. M. Fooshee, co. engr.

Tex., Senter—Shelby Co. making plans grading and gravel surfacing 6 mi. State Highway 35 from Timpson to Bobo, 16 ft., 15,000 cu. yd. roadway and 20,000 cu. yd. borrow excav., 132 sq.yd. concrete, 12,520 cu. yd. gravel surfacing. $64,386. I. R. Titus, Timpson, engr.

Idaho—State Hy. Comn., Boise, making plans grading and gravel surfacing 10.7 mi. Idaho-Pacific Highway, Federal Aid Project 65, from Georgetown to Caribou Co. line, 20 ft. $95,000. D. P. Olson, dir. highways.

Calif., Merced—Merced Co. rejected bids paving 13.4 mi. Dos Palos and Volta sections of Pacheco Pass Highway. Will probably readvertise. A. E. Cowell, Merced, engr. Noted June 22.

Calif., San Francisco — City and San Francisco Co. had plans prepared improving Ulloa St. between 22nd and 27th Aves., 2,778 lin.ft. concrete curb, 380 lin.ft. 10 in. ironstone pipe culvert, 2,642 sq.ft. artificial stone walks, 79,573 sq.ft. asphaltic paving, etc. $27,500. M. M. O'Shaughnessy, city engr.

Calif., San Francisco — City and San Francisco Co. having plans prepared constructing boulevard connecting Lincoln Park with Sutro Heights. $60,000. M. M. O'Shaughnessy, city engr.

Calif., San Francisco — City and San Francisco Co. plan street improvements. $284,000. M. M. O'Shaughnessy, city engr.

Calif., San Rafael—Marin Co. having surveys made constructing 4 mi. permanent road from Roys Mill to Shafter Bridge. Rd. Dist. 5. G. Dodge, co. surv.

Calif., Santa Rosa—Had plans prepared improving College Ave. between Mendocino and 4th Sts., 83,000 sq. ft. 1½ in. warrenite on 4 in. asphaltic concrete, 83,000 sq. ft. grading; Slater St. between College Ave. and Spencer Sts., 41,337 sq .ft. 1½ in. warrenite on 4 in. asphaltic concrete, 41,337 sq. ft. grading. L. L. Mills, city engr.

Ontario — Colonization Rds. Dept., Toronto, will have survey made this winter for 100 mi. gravel trunk road from North Bay to Cobalt. $1,000,000. C. H. Fullerton, Parliament Bldg., Toronto, ch. engr.

Ont., Hamilton—Having plans prepared concrete pavements on Mountwood Ave. and King St. W., asphalt pavements on Caroline St. and cement sidewalks and curbs from Bond to Coine Aves. $62,000. Work will probably be done by day labor under direction of E. R. Gray, city engr.

Ont., Oshawa—Plans 7,000 sq.yd. asphaltic pavements on Glendon Ave., Clark, Huron, and Drew Sts., Huron and Tyler Crescents, 24 ft. wide, with concrete base, curbs and gutters. $30,000. W. Smith, town engr.

BIDS DESIRED

Mass., Ashburnham—Nov. 14, by Selectmen of town of Ashburnham, at office of Div. of Highways, State House, Boston, paving 4,221 ft. road, 20 ft.-25 ft., here, bituminous macadam. $40,000. A. W. Dean, Boston, state highway engr.

Mass., Grafton—Nov. 14, by Selectmen of Town of Grafton at office of Div. of Highways, State House, Boston, paving about 3,000 ft. road, bituminous macadam, here. $25,000. A. W. Dean, Boston, state highway engr.

New York—Nov. 21, by H. S. Sisson, comr. State Hy. Dept., Albany, improving highways in Chautauqua, Columbia, Nassau, Orange, Saratoga, Suffolk, Otsego and Wayne Counties, also reconstructing highways in Montgomery, Onondaga, Orange and Tompkins Counties. J. C. Finch, secy.; adv. this issue.

N. Y., Brooklyn—Nov. 15, by E. Riegelmann, boro pres., Boro Hall, resurfacing Albany Ave., asphalt; repaving Church Ave., Empire Blvd. and Ave. R, etc., permanent asphalt; laying cement sidewalks on Montgomery St.

N. Y., Long Island City—Nov. 17, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing and laying sidewalks on 101st (Jerome) Ave. from Van Wyck to Liberty Aves., grading for width of 30 ft. centrally located in Liberty Ave. from 101st Ave. to Sutphin Blvd.; paving for width of 20 ft. centrally located with permanent sheet asphalt on concrete in 101st (Jerome) Ave. from Van Wyck to Liberty Aves., Liberty Ave. from 101st Ave. to Sutphin Blvd.

Pa., Ebensburg — Nov. 15, by Supervs. Susquehanna Twp., c/o Controller Cambria Co., 3.25 mi. road from Emeigh Run to Plattsville, 18 ft., concrete or brick on concrete. $150,000. C. E. Schlicher, Spangler, engr.

Virginia—See "Bridges."

Florida—Nov. 14, by State Hy. Dept., Tallahassee, constructing 10 mi. Rd. 7, Federal Aid Project 34, Escambia Co.; 7.76 mi. Rd. 4, Federal Aid Project 36, St. Lucie Co.; alternative bids on 3 in. penetration macadam on 8 in. rock, 3 in. asphalt with binder course on 8 in. rock or 6 in., 8 in., 6 in. plain concrete surface. W. F. Cocke, state highway engr.

Fla., Milton—Nov. 14, by Comrs. Santa Rosa Co., clearing, grading and surfacing 8.04 mi. road, 10 acres clearing, 22,891 cu. yd. embankment, 15,080 cu. yd. excav., 14,300 cu. yd. sand-clay surfacing in place; 2.014 mi. Jay-Century Rd., 2,363 cu. yd. sand-clay surface, 10 acres clearing, 27,456 cu. yd. embankment, 630 ft. pile trestle. C. H. Overman, Bagdad, co. engr.

Michigan—Nov. 17, by State Hy. Dept., Lansing, grading and surfacing 3.978 mi. Assessment Dist. Rd. 326, Branch Co., 13,095 cu.yd. excav., 21,005 sq.yd. gravel or stone-gravel, 4.229 mi. Assessment Dist. Rd. 283, Branch and Hillsdale Counties, 8,401 cu.yd. excav., 29,707 sq.yd. gravel or stone-gravel; 4.188 mi. Assessment Dist. Rd. 348, Branch and Calhoun Counties, 13,208 cu.yd. excav., 22,067 sq.yd. gravel or gravel-stone. F. F. Rogers, state highway comr. Noted Nov. 2.

Ia., Greenfield—Nov. 15, by Comrs. Adair Co., grading 4.2 mi. Greenfield-Fontanelli Rd., Federal Aid Project 173, Sect. B, 129,055 cu.yd. excav., 16,000 ft. 6 in. tile, etc. C. H. Lehmkuhl, Greenfield, engr.

Ia., Waterloo—Nov. 15, by Comrs. Black Hawk Co., grading 13 mi. Primary Rd. Project 233, from Benton Co. Line south of La Porte city, northwest to here, 137,143 cu.yd. excav., 59,000 ft. 6 in., 18,140 ft. 8 in. 8,460 ft. 10 in. tile drain, etc. W. D. Johnson, Waterloo, engr.

Minn., Albert Lea—Dec. 5, by F. Tavis, aud, Freeborn Co., 15 mi. State Project 13-02, Federal Aid Project 285, 210,000 cu. yd. excav., etc., $45,000; 1 mi. State Project 1-06, Federal Aid Project 304, 21,600 cu.yd. excav., portable and monolithic culverts, $5,000. State Hy. Dept., St. Paul, engrs.

Mo., University (St. Louis P. O.)—Nov. 15, by F. Pitzman, engr., 619 Chestnut St., St. Louis, improving 5,000 ft. University Park subdivision; 1st unit, 8,850 lin.ft. concrete curb and 18 in. gutter, 50,000 sq.ft. 4 in. sidewalk, 310 sq.ft. alley entrances, for C. Crane Willmore Corp., Boatmens Bank Bldg., St. Louis. $25,000.

Tex., Dallas—Jan. 1, by City Comn., improving 4,200 ft. Pacific Ave., Uvalde rock or bitulithic asphalt. $100,000. G. Fairtrace, city engr.

Tex., Edinburg—Nov. 21, by G. P. Brown, judge Hidalgo Co., grading and surfacing 13.92 mi. State Highway 12, Federal Aid Project 301, 18 ft., (a) 18 x 6 in. rein.-con. base with 1 in. cold rolled asphalt top, (b) rein.-con. base with 2 in. hot mix asphalt top, (c) macadam base with 2 in. hot mix asphalt top, or (d) 2 course rein.-con. using 2 in. Texas Trap rock for top course, 385 cu.yd. concrete, 41,529 lb. reinforcing, 46,198 cu.yd. roadway, 9,362 cu. yd. borrow, (a and b) $588,000, (c) $557,500, (d) $543,500. P. S. Devine, Pharr, co. engr.

Tex., Marlin—Nov. 15, by E. M. Dodson, judge Falls Co., grading, gravel surfacing and bridging 9.22 mi. State Highway 44, Federal Aid Project 297, 16 ft., 8.16 acres clearing, 49,057 cu.yd. roadway, 50,450 cu. yd. borrow, 745.4 cu.yd. concrete, 23,466 cu.yd. gravel surfacing, etc. $108,179. J. P. Wehrung, Chilton, co. engr.

Oklahoma—Nov. 15, by M. L. Cunningham, state engr., Capitol Bldg., Oklahoma City, hard surfacing 7.419 mi. Federal Aid Project 79, Pittsburgh Co., 5.663 mi. Federal Aid Project 80, Pittsburg Co.; constructing 3.172 mi. shale road, Federal Aid Project 77, Latimer Co.; 1.955 ft. concrete road, Federal Aid Project 36, Latimer Co.; 7.739 mi. gravel road, Federal Aid Project 83, Le Fore Co.

Idaho—Nov. 13, by W. Osborn, dist. engr. State Highway Dept., Lewiston, gravel surfacing 22 mi. North and South Highway, between Genesee and Moscow, Federal Aid Project 18, Latah and Nez Perce Counties, 23,080 cu.yd. gravel. Cost to exceed $25,000.

Quebec—Dec. 30, by J. L. Boulanger, deputy minister, Dept. Rds., Quebec, building Levis-Rimouski Highway, 1.71 mi. concrete road in Lauzon, 3.92 mi. tar macadam in Lauzon, 29.97 mi. rabble in municipalities of St. Valier, Berthier, St. Roch-des-Aulaies, L'Isle Verte, Trois Pistoles, Notre-Dame du Portage. M. Nectkar, ch. engr.

BIDS RECEIVED

Pennsylvania—State Hy. Dept., Harrisburg, opened bids Nov. 3, Route 276, Cambria Co., from Leechburg Constr. Co. Inc., Leechburg, $135,920, Burd Constr. Co., Cresson, $142,655, S. Gamble Co., Glass St., Carnegie, $144,454; Route 200 Crawford Co. from J. C. Devine Co., Alliance, O., $63,536, Fort Pitt Constr. Co., 207 Martin Bldg., Pittsburgh, $65,790, C. H. Fry Constr. Co., Cherry and 19th Sts., Erie, $71,457. Applications 1092 and 1096, Warren Co. from F. C. Chiodo, Sheffield, $164,190, F. D. Ross, 137 Main St., Bradford, $173,280, Kavanaugh De Niro Constr. Co., 417 Terminal Bldg., Youngstown, O., $185,939. Noted Oct. 19.

Pa., Phila.—Grading and improving (1) Bridge St. from Summervale Ave. to Langdon St., Bouvier St. from 67th to 68th Aves., Clarkson St. from Rising Sun to Olney Aves. (2) Annsbury St. from 4th to 5th Sts., Chew St. from 12th to 13th Sts., Delphine St. from 3rd to 4th Sts., Gale St. from 4th to Masher Sts., Lindley St. from 2nd to 3rd Sts. (3) Luray St. from Rising Sun Ave. to Palethorpe St., 17th St. from Rockland to Ruscomb Sts., 67th Ave. from Ogontz Ave. to 20th St. (4) Landsdowne Ave. from 66th to Haverford Aves., from D. De Lisle, 4842 Lithgow St. (1) $27,063; T. L. Flannigan, 2404 East Montgomery St., (1) $29,657; R. B. Wenner, Phila., (street address not available), (1) $29,986; Eastern Paving Co., Colonial Trust Bldg., (2) $27,913 (3) $26,836 (4) $40,733; Barber Asphalt Paving Co., Land Title Bldg., (2) $29,174 (3) $28,378.

S. C., Columbia—Richland Co., constructing 11 mi. topsoil road on Monticello Highway, from White Constr. Co., Chatham, Va., $56,161; C. E. Teague, Augusta, Ga. (street address not available) $63,430; E. A. Havird & Co., Newberry, $65,306. Noted Oct. 26.

O., Cleveland—Cuyahoga Co. opened bids Oct. 28, paving Brookpark Rd. 4, 12,200 cu. yd. earth excav., 1,980 cu. yd. concrete base, (a) 9,900 sq. yd. waterbound macadam, (b) 9,900 sq. yd. brick surface, from E. Gedney, Parkway Dr., (a) $54,004, Enterprise Paving & Constr. Co., $444 Bway (b) $58,441; engrs. est $58,636; Short Crossview and Chestnut Rds., 1,200 cu. yd earth excav., 31,600 cu. yd. waterbound macadam, from Ohio Contg. Co., Elyria, $95,913, Burke Constr. Co., Schofield Bldg., $107,850, engrs. est. $107,853. Noted Oct. 26.

Michigan—State Hy. Dept., Lansing opened bids grading and surfacing 4.355 mi. State Trunk Line Rd. 22-6, Sect. B, Benzie Co., from Pierson & Allswede, Hersey, $27,123, Smitley, Bruce & Stockwell, Harrison, $27,513, W. J. Cadwell, Boyne City, $28,311. Noted Oct. 26.

Wis., Milwaukee—Grading 75,000 cu.yd. or 122,000 cu.yd. area north of harbor entrance, (1) Area A, (2) Area B, from R. Kircharski, 796 Rogers St. (1) $0.30 (2) $0.33; Peppard, Burrill & Lynch, 202 Kenwood Parkway, Minneapolis, Minn., (1) $0.433 (2) $0.52; C. Haworth, 288 Cedar St., Wauwatosa, (1) $0.49 (2) $0.56. Noted Oct. 12.

South Dakota—State Hy. Dept., Pierre, opened bids Oct. 31, gravel surfacing (1) 10.1 mi. Federal Aid Project 47, Lincoln Co. (2) 14.09 mi. Federal Aid Project 81, Beadle Co. (3) 15.37 mi. Federal Aid Project 32, Edmunds Co. (4) 12.36 mi. Federal Aid Project 74, Douglas Co., from Klamp & Ferguson, Algona, Ia., (1) $39,094; Tobin & Maloney, Maidson, (1) $39,118 (2) $32,538 (3) $32,077 (4) $34,354; W. R. Larson Constr. Co., 520 Secy. Natl. Bank Bldg., Sioux Falls, (1) $39,715 (2) $33,521 (4) $33,202; H. F. Johnson, Aberdeen, (2) $33,239; B. O'Leary, Roscoe, (3) $30,648; C. M. Hansen, Stratford, (3) $33,713; Gotzmeyer-Lenz Co., Minneapolis, Minn., (street address not available), (4) $34,754.

Tex., Austin—Travis Co. surfacing 3.2 mi. Highway 20 between here and Manor 16 ft., (a) 5½ in. crushed stone base, (b) 1½ in. bituminous topping, from Travis Co. c/o G. S. Mathews, co. judge, Austin, (a) $18,694, (b) $19,697; R. D. Winder, 2304 Neches St., (a) $20, 260, (b) $22,414; Haden & Austin, P. O. Box 1223, Houston, (b) $15,219. Noted Oct. 26.

Streets and Roads (Continued)

Calif., Fresno—Improving Thorne Ave. between Hedges and Belmont Sts., from California Road & Street Impvt. Co., Bank of Italy Bldg., $43,521; Thompson Bros., G and Divisadero Sts., $44,385; Federal Constr. Co., Call Bldg., San Francisco, $43,-906. Noted Sept. 28.

Calif., Merced—Merced Co. improving Rd. Dist. 3, from T. A. Hanrahan, 1361 P St., Fresno, $374,990; Valley Paving & Constr. Co., Merced, $385,363; Warren Constr. Co., Bacon Bldg., Oakland, $392,-500.

Calif., Tracy—Improving portions East 6th, 6th, West 4th and 4th Sts., from J. E. Johnson, Stockton Savings & Loan Bank Bldg., Stockton, $47,616; J. A. Costello, Jr., 1083 Shotwell St., San Francisco, $52,-852; Clark & Henery Constr. Co., 38 South Sutter St., Stockton, $53,666. Noted Oct. 19.

CONTRACTS AWARDED

N. Y., Buffalo—To Rock Asphalt & Constr. Co., Morgan Bldg., paving Collingwood Ave., $4,372, Olympic Ave. $6,931, Lovering Ave. $16,634, Gesl St. $10,387, Peckham St. $45,050; to H. P. Burgard Co., 1968 Fillmore Ave., Roebling Ave., $23,500, all asphalt on concrete.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading Hallett St., to Welsh Bros. Contg. Co., 32 Queens St., Astoria, $15,347; paving 101st and 115th Sts., to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $28,105 and $11,810 respectively; 5th St. and grading, curbing and laying sidewalks on 115th St., to F. J. Clancy, 460 Lockwood St., Astoria, $22,090 and $6,725 respectively; 126th St., to Soviero & Britten, 10111 114th St., Richmond Hill, $4,296; Beach 25th St., to R. A. Hess, Inc., 14 Queens St., Astoria, $6,305. Noted Oct. 26.

N. Y., New York—H. Bruckner, pres. Bronx Boro, sheet asphalt paving on Park Ave., to C. D. Beckwith, 2875 Bway., $13,-096; grading, setting curb and laying sidewalks on Norman Ave., to M. DelBalso, 660 East 221st St., $8,283; Duryea Ave., to C. DelBlasio, 337 7th Ave., Mt. Vernon, $3,298; Pelham Parkway, to Spadaro & Turriamo, 3185 East Tremont Ave., $33,937. Noted Nov. 2.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., repaving Manhattan and Amsterdam Aves., etc., sheet asphalt on concrete, to Asphalt Constr. Co., 2197 Madison Ave., $23,943 and $17,004 respectively. Noted Oct. 26.

N. Y., Rochester—For 4,000 yd. Medina block pavement and 1,539 ft. 24-30 in. segmental block sewers in Joseph Ave. between Herman and Clifford Sts. to T. Holohan, 163 Lewis St., $47,574. Engrs. est. $55,000. Noted Sept. 21.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, repaving Castleton Ave. from Bard to Burgher Aves. and Castleton Ave. from Bard to Cebra Aves., to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $32,352 and $53,486 respectively; Richmond Ave. to W. P. McDonald, 342 Madison Ave., New York, $28,215. Noted Oct. 26.

N. C., Spring Hope—Constructing various streets, laying sidewalks, granite curbs and concrete gutters, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $50,000.

S. C., Anderson—Anderson Co. improving 8 mi. Anderson-Liberty Highway, to W. R. Carson, Anderson, $25,612; bridge on above road, to C. M. Guest, Anderson, $7,694. Noted Aug. 31.

S. C., Greenville—Greenville Co., improving 4.03 mi. Dunhams Bridge Rd., to J. L. Carroll, Orangeburg, $26,648; 1.99 mi. Kays Bridge Rd., to W. E. Gossett, Goose Creek, $8,220. Noted Sept. 21.

S. C., Pickens—Pickens Co., constructing 7 mi. Pickens-North Carolina Rd., to J. B. Ross, Dillsboro, N. C. Former contract rescinded. Noted Oct. 5.

Fla., Dade City—Pasco Co., to Finley-Method Co., Graham Bldg., Jacksonville, grading and paving with asphalt on 8 in. rock, Rd., 2, $214,211, Rd. 3, $90,402; grading and paving on sand-clay base, Rds. 4 and 5, $25,538, Rds. 6 and 7, $33,720, Rd. 8, $34,310, Rds. 9, 10 and 11, $74,488. Noted Sept. 28.

Fla., Melburne—Grading, paving, curbing and laying sewers in various streets, 16,200 cu. yd. excav., 42,850 sq. yd. bituminous surface, 42,850 sq. yd. macadam, 500 ton crushed rock shoulder, 9,106 lin. ft. concrete and 66,420 lin. ft. wood curbing, to J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, Ga., $74,284.

ROAD WORK—BROWNSVILLE, TEX.

Following are lowest three bids opened Oct. 9, by Comrs. Cameron Co., for constructing 10.48 mi. Highway No. 12, Sect. "F," (A) F. P. McElwrath, Corsicana (awarded contract); (B) S. W. Bituminous Co., San Antonio; (C) Dodds & Wedergertner, San Benito. The unit bids were as follows:

	A	B	C
17,431 cu.yd. earth roadway excavation	$0 16	$0 30	$0 20
24,810 cu.yd. earth borrow excavation	16	27	20
11,089 cu.yd. st. earth overhaul 100 ft. sta.	03	04	06
527 cu.yd. structural excavation dry	75	85	1 00
279.94 cu.yd. class "A" concrete (1:2:4)	24 00	22 50	25 00
26,790 lb. reinforcing steel	05½	06	06
112 lin.ft. bridge railing, type "C"	1 50	1 50	2 00
110,650 sq.yd. two-course concrete pavement	2 83	2 87	2 90
294,605 lb. pavement reinforcing material	05	05½	06
Extended totals	$343,754	$354,705	$357,082

ROAD WORK—UTAH

Following are lowest three bids opened Oct. 18, by State Rd. Comn., Salt Lake City, for constructing 4.5 mi. road from Brigham to Corinne, Boxelder Co., (A) Gibbons & Reed, Kearne Bldg., Salt Lake City; (awarded contract); (B) O. Nelson, Logan, (C) H. G. Gilkerson, 217 Hess Bldg., Salt Lake City. The unit bids were as follows:

	A	B	C
4,416 cu.yd. common excavation	$0 80	$0 90	$1 00
428 cu.yd. excavation for open drains	30	1 50	40
10,980 cu.yd. borrow	30	40	1 00
3,000 sta. yd. overhaul class "A"	03	02	04
3,900 yd. mi. overhaul class "B"	35	35	40
11,800 sq.yd. reinforcing (pavement)	02	04	03
43,238.3 sq.yd. 7½-in. concrete pavement	1 15	1 28	1 19
10,712 lin.ft. elastite joint filler, placing	02	02	02
500 cu.yd. riprap	4 50	2 50	4 00
123 cu.yd. structural excavation	1 00	1 25	1 50
8,733 lb. reinforcing (structures)	01½	03	02½
72.6 cu.yd. concrete class "A"	15 00	16 00	18 00
37.6 cu.yd. concrete class "B"	14 00	16 00	17 50
24 lin.ft. pipe handrail, including painting	10	2 00	1 50
416 lin.ft. concrete pipe 18-in.	1 00	1 10	60
324 lin.ft. concrete pipe 24-in.	1 25	1 40	1 00
168 lin.ft. corr. iron pipe 12-in.	40	60	30
80 lin.ft. corr. iron pipe 18-in.	50	70	50
244 lin.ft. wooden headers 4 in. x 6 in.	20	15	15
31 lin.ft. plain concrete curb and gutter	1 20	80	1 40
22 lin.ft. curved concrete curb and gutter	1 30	1 00	1 60
2 culvert cleanout castings	5 00	3 00	15 00
Extended totals	$63,759	$71,099	$74,481

Alabama—State Hy. Dept., Montgomery, grading, surfacing and constructing bridge on York-Livingston-Gainesville Rd., 102 ft. 6 in. steel span, 865 lin.ft. creosote timber trestle, earth approach, 2½ in. bituminous macadam (penetration) surfacing, to Stanley & Singer Constr. Co., Lafayette, $75,-552. Noted Oct. 19.

O., Cleveland—Cuyahoga Co. paving Bunts Rd., asphalt, to Cleveland Trinidad Paving Co., The Arcade, $64,295, engrs. est. $72,627; Brainard Rd., waterbound macadam, to Lane & Freeman, Newman-Stern Bldg., $67,224, engrs. est. $77,513. Noted Nov. 2.

Michigan—State Hy. Dept., Lansing, grading and surfacing 4.325 mi. State Trunk Line Rd. 10-33, Sect. A, Cheboygan Co., 31,157 cu.yd. excav., 40,561 sq.yd. gravel, to Arenac Constr. Co., Standish, $39,705.

Michigan—State Hy. Dept., Lansing, grading and surfacing 4.321 mi. State Trunk Line Rd. 26-6, Sect. B, Ontonagon Co., 22,340 cu.yd. excav., 36,336 sq.yd. gravel, to S. Fredeen, Rockland, $44,622.

Mich., Detroit—To Detroit Asphalt Paving Co., 20 McGraw Bldg., 23½ in. sheet asphalt pavements on Broadstreet Ave. $44,260, Cherrylawn Ave. $9,806, Davison Ave. $48,689, Dumbarton Rd. $26,908, Lueschner Ave. $20,692; to G. R. Cooke, 1260 Penobscot Bldg., Greendale Ave. $36,-885, Goddard Ave. $13,072; to Cleveland Trinidad Paving Co., 402 Hammond Bldg., Rochester Ave. $41,716. Noted Oct. 26.

Ia., Newton—Jasper Co. gravel surfacing 8.63 mi. primary road east and west of Colfax, 26 ft., 13,460 cu. yd. gravel, to P. C. Flutter, Colfax, $33,928.

Wyoming—State Hy. Comn., Cheyenne, grading, surfacing and building culverts on 4.5 mi. road, from Clearmont to Double Crossing on Sheridan-Gillette Rd., Federal Aid Project 116, Sect. A, Sheridan Co. to F. H. Fraser, Sheridan, $30,782; 3.75 mi. Yellowstone Highway north of Manderson, Federal Aid Project 113, Big Horn Co., to Threet Bros., Lovell, $29,061; grading and surfacing 15.1 mi. Lincoln Highway, Thayer Junction to Rock Springs, Federal Aid Project 137, Sweetwater Co., to Bagley Bros., Wheatland, $67,177. Noted Oct. 19.

Missouri—State Hy. Dept. at div. office Gallatin, 12.32 mi. road from Winston and Gallatin to Trenton, 24 ft., State Aid Project 20.206, Daviess Co., to Capitol Constr. Co., 1207 Cherry St., Des Moines, Ia., $38,539. Noted Oct. 26.

Missouri—State Hy. Dept., Jefferson City, 6.015 mi. road north and south of Livingston, 24 ft., State Project 20.193, Livingston Co., 41,362 cu. yd. earth excav., 17,680 cu. yd. borrow, 259.8 cu. yd. concrete masonry, etc., to E. P. Olson, 2901 Monterey St., St. Joseph, $25,144.

Missouri—State Hy. Dept., Jefferson City, 4.789 mi. State Project Route 42, Sect. 4, 16 ft., Oregon Co., to W. F. Plummer, Inc., 536 Monroe St., Springfield, $32,932; 4.789 mi. road through Shannon east and west, 24 ft., State Project Route 2, Sect. 60, Shannon Co., to Coopers Constr. Co., St. Louis (street address not available), $44,806; 1.687 mi. road from Monett to Springfield, 24 ft., State Project Route 16, Sect. 19, Lawrence Co., to Baker & Koontz, Carthage, $47,451; 4.943 mi. road from St. Clair line south, 24 ft., State Project Route 13, Sect. 46, Polk Co., to M. E. Gillioz, Monett, $30,-590; 4.943 mi. road from Nevada to Eldorado Springs, 24 ft., State Project Route 26, Sect. 6, Vernon Co., to Moss & Moss, Nevada, $14,430; 5 sections of roads from Warrenton to St. Charles, St. Charles Co., to Moreno-Burkham Co., Syndicate Trust Bldg., St. Louis, $676,000. Noted Oct. 12.

Missouri—State Hy. Dept. at div. office Liberty, 10.6 mi. road from North Kansas City to Liberty, 18 ft., Federal Aid Project 99, Clay Co., to Amer. Paving Co., 411 Finance Bldg., Omaha, Neb., $315,196. Noted Oct. 26.

Mo., Kansas City—Bd. Pub. Wks., to D. T. Brosnahan, 3233 Karnes Blvd., 9,129 sq.yd. brick block pavement on Prospect St. from 35th to 39th Sts., $3.96 per sq.yd., 2,462 lin.ft. 6 in. drain tile, $0.20.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, improving 5,080 ft. Watson Rd., 18 ft., rein.-con., to Webb-Kunze Constr. Co., 5927 Fyler Ave., $137,744. Noted Nov. 2.

Mo., St. Louis—Cornet & Zeibig Trust, 719 Chestnut St., improving 25,000 ft. Pennsylvania, Wise and other streets, Westmoor subdivision in Richmond Heights, 15,-000 lin.ft. concrete curb and gutter, 75,000 sq.ft. 4 in. sidewalk, 40,000 sq.yd. asphaltic macadam, 1,000 ft. 63 in. segmental and 24,000 ft. 8-24 in. vitr. clay sewer pipe, to McKelvey Constr. Co., 911 Title Guaranty Bldg., about $200,000.

Mo., St. Louis—J. A. Hodges, 3127 South Grand Blvd., improving 3,600 ft. Parkwood Subdivision, Morganford and Loughborough Aves., 26 ft., 30,000 sq.ft. 4 in. sidewalk, 31,000 cu.yd. earth excav., 80,000 sq.ft. waterbound macadam, 5,200 ft. 8-36 in. vitr. sewer pipe, to McKelvey Constr. Co., 911 Title Guaranty Bldg., about $33,730.

Mo., St. Louis—H. E. Prettyman Organization, 7th St. near Olive St., improving 10,-

Streets and Roads (Continued)

000 ft. Kingshighway Park subdivision, 17,000 lin.ft. concrete curb and gutter, 84,000 sq.ft. 4 in. sidewalk, 50,000 cu.yd. earth excav., 25,000 sq.yd. asphaltic macadam, 8,000 ft. 8-27 in. vitr. clay sewer pipe; also grading and paving 8 mi. various streets, 26-80 ft., in Pennsylvania Park subdivision, Richmond Heights, 200,000 lin.ft. concrete sidewalk, 100,000 cu.yd. earth excav., 26,400 sq.yd. asphaltic macadam, 400 ft. 8 ft. rein.-con., 500 ft. 63 in. segmental block and 62,460 ft. 8-30 in. vitr. clay sewer pipe, to McKelvey Constr. Co., 911 Title Guaranty Bldg., $135,000 for former project and unit prices ranging from $200,000-$225,000 (depending on work) for latter project.

Tex., Bonham—Fannin Co. grading, gravel surfacing and bituminous topping Road Dist. 4, 16 ft., 62,174 cu. yd. roadway excav., 36,478 gal. bituminous material, 1,743 cu. yd. cover material, 26,165 cu. yd. gravel, 7,473 cu. yd. crushed stone, 65,214 lb. reinforcing and 191,680 lb. structural steel, etc., to F. P. McElwrath, Corsicana, $114,537. Engrs. est. $125,000. Noted Oct. 19.

Tex., Coleman—Coleman Co. grading and surfacing 17.34 mi. Santa Anna Rockwood Rd., 16 ft., to Womack Constr. Co., Sherman, $129,278; 4.43 mi. Howe Rd., 16 ft., to Kuykendall & Shelton, Temple, $28,792; 6.14 mi. Coleman Baird Rd., 16 ft., to McCall-Moore and Scarbrough & Davis, Waco, $50,751.

Tex., Ft. Worth—Tarrant Co. grading and gravel surfacing 10.31 mi. Arlington Mansfield Rd., Sect. B, Project 9, to Tibbetts Constr. Co., 8th St., $48,197; structures to McCoy-Richards, Arlington, $8,084. Noted Oct. 19.

Okla., Pawhuska—Paving various streets with Trinidad asphalt, to Hamilton Constr. Co., Bartlesville, $41,842.

Colorado—State Hy. Dept., Denver, gravel surfacing 3.609 mi. Spanish Trail, 18 ft., Federal Aid Project 71-B, La Plata Co., to Peterson Shirley & Gunther, 1st Natl. Bank Bldg., Denver, $62,274, engrs. est. $54,099; 5.302 mi. road beginning at Grand Valley and extending toward De Beque, Federal Aid Project 210-A, Garfield Co., to F. L. Hoffman, 527 Mining Exch. Bldg., Denver, $52,209, engrs. est. $67,921; concrete paving 1.519 mi. road beginning at Broomfield and extending toward Lafayette, Federal Aid Project 222-B, Boulder Co., to Miller, Douglas & Haines, 100 South York St., Denver, $56,885, engrs. est. $72,000. Noted Oct. 5.

California—State Hy. Comn., Sacramento, grading and 5 in. gravel surfacing 13.5 mi. highway between Sneath Road and Half Moon Bay Rd., Div. 4, Route 55, Sects. A and B, San Mateo Co., to P. L. Burr, 823 Sheldon Bldg., San Francisco, $336,814. Noted Oct. 26.

Calif., Fresno—Grading and paving Ferger Ave. between Olive and Belmont Sts., to Thompson Bros., G and Divisadero Sts., $35,382. Noted Nov. 2.

Calif., Newport Beach—Improving Central Ave. and other streets, 390,555 sq. ft. 5 in. concrete paving, 685,887 sq. ft. 8 in. concrete paving, 29,287 lin. ft. 6 in. concrete curbing, 76,362 sq. ft. concrete sidewalk and 149,133 sq. ft. clay surfacing, etc. to California Constr. Co., Union Bldg., San Diego, $404,623. Noted July 6.

Ont., Toronto—Will build 2,000 sq.yd. asphalt pavements on Main St. $10,527, 25,000 sq.ft. concrete sidewalks on Oakdene Crescent $2,651, and Baliol St., $5,117; extending and grading Pailton Crescent, $10,750, by day labor. R. C. Harris, city engr.

Industrial Works

PROPOSED WORK

Mass., Worcester—Home Accessories Corp., 44 Pearl St., plans 2 story factory addition, brick, Gardner and Taintor Sts. $40,000. E. T. Chapin, 340 Main St., archt.

Mass., Worcester—Parker Wire Goods Co., 18 Grafton St., plans 1 story plant addition, brick and steel, Washington St. $75,000. Architect not announced.

Conn., New Haven—Ward Baking Co., Southern Blvd. and South Marys St., New York City, plans 2 story and basement, factory, brick and concrete, Lombard St., here. Architect not announced.

N. Y., New York—M. Low, c/o L. Sherman, archt. and engrs., 194 Bowery, soon takes bids 3 story, 100 x 125 ft., brick, steel and concrete garage, plain foundation, Amsterdam Ave. and 57th St.

N. Y., New York—H. Stern Lumber Co., c/o W. H. Gompert, archt. and engr., 171 Madison Ave., soon takes bids rein.-con., brick and steel plant, plain foundation, 69th St. near Ave. A. $100,000.

N. J., Newark—Dugan Bros., 287 Bway., Brooklyn, N. Y., having plans prepared by M. N. Shoemaker, archt. and engr., 15 Central Ave., brick, steel and concrete bakery, plain foundation, Abington Ave. and 3rd St., here. $200,000.

Md., Baltimore—Amer. Can Co., 120 Bway., New York City, plans rein.-con. and steel factory, concrete pile foundation, Boston and Hudson Sts., here. $350,000.

Ky., Jackson—Kentucky Utilities Co., plans 1 story and basement, power plant. H. Gillem, genl. mgr.

O., Akron—General Tire & Rubber Co., 1708 East Market St., had plans prepared by Osborn Eng. Co., archts. and engrs., 2848 Prospect Ave., Cleveland, 1 and 3 story, 40 x 180 ft. and 60 x 100 ft., brick, steel and concrete factory additions. $100,000. M. O'Neil, pres.

O., Columbus—Teachout Door Sash & Glass Co., 100 West Spring St., had plans prepared by C. W. Bellows, archt., 69 Ruggery Bldg., 2 story and basement, 125 x 125 ft., brick and concrete warehouse, North Water St., $65,000.

Wis., La Crosse—La Crosse Fur & Hide Co., 202 South Front St., having plans prepared by O. J. Sorenson, archt., 216 Main St., 2 story and basement, 22 x 92 ft. and 20 x 30 ft. storage plant addition, brick and concrete, plain foundation, South Front St. $42,000.

Wis., Racine—F. J. Greene Eng. Wks., 1028 Douglas Ave., soon takes new bids 3 story, 53 x 100 ft. factory, brick and concrete, plain foundation, Douglas Ave. Former bids rejected. $50,000. E. B. Funston Co., Janes Blk., archts.

Colo., Denver—McMurtry Mfg. Co., 1533 Arapahoe St., having plans prepared by A. Gove, archt., 1608 Bway., 2 or 4 story, 40 x 125 ft., paint factory, 26th and Blake Sts. $60,000.

Calif., Dinuba—Central California Ice Co., P and Mono Sts., Fresno, plans ice plant, South M and Ventura Sts., here.

Calif., Merced—California Packing Corp., 101 California St., San Francisco, had preliminary sketches prepared by P. L. Bush, engr., 101 California St., San Francisco, several large cannery buildings, 23rd St. from P to R Sts. and 22nd St. between Q and R Sts.

Calif., San Francisco—Goodrich Rubber Co., 401 Mission St., had plans prepared by H. C. Baumann, archt., 251 Kearny St., 6 story and basement rein.-con., warehouse and loft, 2nd St. between Brannan and Townsend Sts. $150,000.

Ontario — Temiskaming & Northern Ontario Ry., North Bay, plans to rebuild stations and freight sheds destroyed by fire at North Cobalt, Haileybury and Heaslip, brick and timber construction. $200,000 to $300,000. S. B. Clemont, North Bay, ch. engr.

BIDS DESIRED

O., Norwood—A. Kahn, archt., 1000 Marquette Bldg., Detroit, Mich., taking bids and opens same about Nov. 22, 2 story, 320 x 500 ft. automobile factory, 25 ft. high, rein.-con. and flat slab construction, plain foundation, Smith Rd., here, for Chrevolet Motor Co., Genl. Motors Bldg., Detroit, Mich.

Mich., Muskegon—Central Paper Co. taking bids 3 story and basement, rein.-con. and brick factory, concrete pile foundation, Lake St., $200,000. Prices wanted on 700 ton special steel, 1,350,000 common brick, 100,000 cu. ft. concrete, 60,000 sq. ft. 6 in. and 40,000 sq. ft. 4 in. concrete flooring, 55,000 sq. ft. 3 in. concrete roofing, 5,600 yd. concrete, 2,000 cu. yd. excav.

Ill., Chicago—X. L. Refrigerating Co., Inc., 1834 West 59th St., receiving bids 1 story, 125 x 132 ft., rein.-con., brick and steel factory, 59th and Aberdeen Sts. $60,000. A. G. Lund, 453 West 63rd St., archt.

Ill., Chicago—Rawson & Eisenberg, archts., 5 North La Salle St., receiving bids 3 story, 100 x 125 ft., rein.-con., brick and steel, Wabash Ave. $75,000. Owner's name withheld.

Ill., Chicago—Dubin & Eisenberg, archts., 14 West Washington St., receiving bids 3 story, 75 x 98 ft., rein.-con., brick and steel factory addition, for Kosher Star Sausage Mfg. Co., 1006 West Maxwell St. $75,000.

Wis., La Crosse—O. A. Merman, archt., 210 Linker Bldg., taking bids and opens same about Nov. 13, 1 story and basement, 60 x 146 ft., brick and concrete garage, plain foundation, 6th and State Sts., for Cameron Motor Car Co., 127 South 6th St. $40,000.

Wis., Stevens Point—F. & G. Auto Parts Co., 425 Madison St., taking bids 1 story and basement, 35 x 102 ft., addition to garage, brick and concrete, plain foundation $40,000. Private plans.

Mo., Paris—See "Waterworks."

CONTRACTS AWARDED

Mass., Pittsfield—General Electric Co., River Rd., Schenectady, N. Y., 1 story, 100 x 516 ft. factory, brick and steel, here, to Austin Co., Bulletin Bldg., Phila. Archts. est. $150,000.

Cann., New London—Edward Bloom Co., Elm St., 2 story, 56 x 238 ft. factory addition, rein.-con. and brick, plain foundation, Elm St., to P. S. Van Kirk Co., c/o owner. $80,000.

N. Y., Brooklyn—B. A. Davies, c/o B. Driesler, Jr., archt. and engr., 153 Remsen St., 1 story, 100 x 200 ft., brick, steel and concrete garage, plain foundation, Empire Blvd., by day labor. $115,000.

N. Y., New York—Reid Ice Cream Co., 79 West 132nd St., 2 and 3 story, 99 x 200 ft. factory with 200 ft. shed, 30 ft. wide on one end and 55 ft. wide on other end, west of 5th Ave. from 141st to 142nd Sts., to Turner Constr. Co., 244 Madison Ave.

N. J., Linden—H. B. Hardenburg & Co., Inc., 1 story and partial basement, 171 x 171 ft., brick and timber factory, with miscellaneous buildings incl. garage, to Turner Constr. Co. ,244 Madison Ave., New York City.

Pa., Pittsburgh—Mack International Moto Truck Corp., 5911 Center Ave., 1 story and basement, 120 x 280 ft. sales and service garage, Liberty and Gross Sts., to Feltyberger Reed Constr. Co., Peoples Bank Bldg. Archts. est. $60,000.

Pa., Scranton—T. F. Leonard Estate, 505 Lackawanna Ave., 2 story, 80 x 130 ft. concrete, brick and steel garage, Adams Ave., to Anthracite Bridge Co., 300 Genet St. Noted Oct. 12.

D. C., Wash.—Evening Star Newspaper Co., 11th St. and Pennsylvania Ave., 5 story and partial basement, containing 12,000 sq.ft. floor space, paper warehouse, rein.-con., Canal St. near 2nd St., to Turner Constr. Co., 244 Madison Ave., New York City.

Tenn., Knoxville—Louisville & Nashville R.R., Louisville, Ky., 2 story, 50 x 600 ft. steel and concrete freight house, here, to H. K. Ferguson Co., 6523 Euclid Ave., Cleveland, O., $150,000. Noted Sept. 21.

Tenn., Nashville—Baptist Sunday School Bd., 8th Ave., 2 story and basement, printing and publishing plant, concrete and brick, 10th and Payne Aves., to H. P. Jacobs & Co., Independent Life Bldg., $158,000.

O., Cleveland—J. Sands, East 55th St. and Sweeney Ave., 1 story, 60 x 100 ft. brick and steel machine shop, 10205 Harvard Ave., to Dresser-Minton Co., The Arcade. Archts. est. $40,000. Noted Nov. 2.

Wis., Marinette—H. A. White, 2000 Hall Ave., 1 story, 67 x 102 ft. garage, brick and concrete, plain foundation, Hall Ave. to H. J. Selmer Co., McCartney, Natl. Bank Bldg., Green Bay. Archts. est. $45,000.

Wis., Milwaukee—C. H. Krouse Milling Co., 37th Ave. and Burnham St., 1 story, 80 x 140 ft. warehouse, brick and timber, Burnham St., to W. F. Tubesing, 129 West Chestnut St., Wauwatosa. Archts. est. $45,000.

Wis., Milwaukee—Luick Ice Cream Co., 183 Ogden Ave., 1 story, 120 x 120 ft. brick and concrete garage, plain foundation, Van Buren St., to S. W. Tallmadge, 445 Milwaukee St. Archts. est. $75,000. Noted Oct. 26.

Kan., Atchison—Blair Milling Co., 300 South 4th St., 6 story and basement 128 ft. high, 36 x 83 ft. plant, 50,000 bu. storage capacity, to Jones Hettelsater Constr. Co., 706 Mutual Bldg., Kansas City, Mo. Noted Sept. 21.

Tex., Waco—Texas Fireproof Storage Co., 4 story and basement, 50 x 100 ft. warehouse and garage, brick and steel, plain foundation, 11th and Mary Sts., to J. E. Johnson Constr. Co., Waco. $100,000.

Industrial Works (Continued)

Calif., Los Angeles—W. P. Fuller Paint Co., 945 South Main St., 2 story, 120 x 125 ft., factory and warehouse, to Lepper & Laisy, Johnson Bldg., $44,600.

Calif., Oakland—J. E. French Co., 124 Grand Ave., 1 story, rein.-con., service garage and auto salesroom, southeast Bway. and Moss Ave., to G. P. Jensen, 320 Market St., San Francisco, $65,000.

Alta, Calgary—Imperial Oil Co. Ltd., 56 Church St., Toronto, Ont., oil refinery, here, to McDonald Bros., 518 9th Ave. Archts. est. $2,500,000.

Buildings

PROPOSED WORK

Mass., Amherst—Church—Wesley Methodist Church plans 1 story and basement, brick, stone and steel. $150,000. K. S. Putnam, 78 Main St., Northampton, archt.

Mass., Gardner—Town Hall—Town having revised plans prepared by B. Brown, archt., 88 Beacon St., Boston, and takes bids about Dec. 1, 2 story, 80 x 110 ft., rein.-con. and stone. $300,000. R. N. Wiley, chn. building com. Noted Jan. 26.

Mass., Springfield — Hotel — Hampden Hotel Co., Chestnut St., had plans prepared by Architectural and Eng. Assn., 145 State St., 10 story, 40 x 150 ft., brick and steel addition, Chestnut St. $150,000. C. Shean, mgr.

Mass., West Springfield (Springfield P. O.)—High School—Town had plans prepared by C. G. Loring, archt., 7 Water St., Boston, 3 story, 100 x 200 ft., brick. $225,000. A. L. Pease, 22 Elm St., member building com. Noted May 25.

Conn., New Britain — Hotel — United Hotels Co. of America, c/o H. L. Stevens & Co., archts. and engrs., 522 5th Ave., New York City, having plans prepared 5 or 6 story, brick, steel and concrete, West Main St. $500,000. Noted June 22.

Conn., New Britain—Schools—City plans 3 story, 16 room addition to Smalley School, $185,000, and 2 story and basement, 12 rooms, East St. Section. $157,000, both brick and steel. E. C. Goodwin, ch. School Bd. Architect not selected.

N. Y., Mt. Vernon — Apartment — A. Gevirty, 273 Primrose Ave., soon takes bids 4 story, 205 x 310 ft., brick, steel and stone, plain foundation, Hartly and Gramattan Aves. $200,000. Sibley & Featherston, 101 Park Ave., New York, archts. and engrs.

N. Y., New York—Apartment—G. S. P. Kleeberg, care H. A. Jacobs, archt. and engr., 64 East 55th St., soon takes bids altering 6 story, 25 x 100 ft., brick, steel and stone, 126 East 54th St. $175,000.

N. Y., New York—Police Station—Dept. Police, 240 Center St., plans 4 story, 60 x 75 ft., brick, steel and stone, plain foundation 182d St. and Wadsworth Ave. $175,000. R. Enright, comr. Private plans.

N. Y., New York—Store, Showroom and Office—Ren Zone Realty Co., c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., soon takes bids 9 story, 65 x 100 ft., brick, steel and stone, plain foundation, 156 West 34th St. $200,000.

N. Y., New York—Theatre, Store and Office—Fourteen Ninety-one Bway. Corp., 485 5th Ave., plans brick, steel and stone, plain foundation, 1491 Bway. $350,000. A. Zukor, pres. R. B. Smith, 452 5th Ave., archt. and engr.

N. Y., Portchester—Lodge—Portchester Lodge B. P. O. E. 863, 140 North Main St., having plans prepared by W. H. McElfatrick, archt. and engr., Columbia Theatre Bldg., New York. 4 story, 50 x 160 ft., brick, steel and stone, plain foundation, $150,000.

N. Y., Utica—Theatre and Office—N. Robbins, c/o Avon Theatre, soon takes bids 6 story, brick, steel and stone, plain foundation. Columbia and University Sts. $500,000. E. C. Horn & Son, 1476 Bway., New York, archts. and engrs.

N. J., Plainfield—Hospital—Muhlesberg Hospital having preliminary plans prepared by Crow, Lewis & Wick, archts. and engrs., 200 5th Ave., New York, brick, steel and stone addition, plain foundation. $500,000. F. W. Hubbard, building chn.

Pa., Altoona—Lodge—Archie Maxwell Lodge of Odd Fellows, 1112 15th St., plans 3 story and basement, 90 x 120 ft., brick, steel and stone, 12th Ave. $150,000. G. A. Wood, 4025 5th Ave., trustee.

Pa., Harrisburg — Lodge — Knights of Pythias Inc., 4th and Kelker Sts., conducting campaign to raise $150,000 for 5 story and basement, 100 x 120 ft. brick, steel and stone, 4th and Kelker Sts.

Pa., Phila. — Victory Hall — Following architects were selected to compete in competition for designing Victory Hall to be erected on Parkway, P. P. Cret, 112 South 16th St.; C. G. Klauder of Day, Klauder, Franklin Bank Bldg.; Wilson, Eyre & McElvain, 1003 Spruce St.; A. Evans, G. W. Casey and H. E. Kleinfelder, of Furness, Evans & Co., 315 South 15th St.; Mellor, Meigs & Howe, 205 South Juniper St., Rankin, Kellog & Crane, 1012 Walnut St.; E. V. Seelers, 101 South Juniper St.; H. Trumbauer, Land Title Bldg., and Zantzinger, Borie & Medary, Otis Bldg. $5,000,000.

W. Va., Charleston—Office—Kanawha Valley Bank, 1 Capitol St., takes bids about Mar. 1, 16 story, 110 x 120 ft., Capitol and Lee Sts. $2,000,000. Architect not named.

N. C., Greensboro—Church—Grace Methodist Protestant Church, plans church, Edgeworth and Gaston Sts. $200,000. J. M. Millikan, committeeman.

N. C., Washington—Schools—Voted $300,000 bonds for new schools. Noted Sept. 28.

N. C., Winston-Salem—School—Plans school, Patterson Ave. $225,000. J. G. Hanes, mayor. Architect not announced.

Ky., Louisville—Hospital—Kentucky Baptists had plans prepared by Joseph & Joseph, archts., Francis Bldg., 6 story, Barrett Ave. $500,000. M. P. Hunt, chn.

O., Cleveland—School—Bd. Educ., Royalton Twp., having preliminary plans prepared by Fulton, Taylor & Cahill, archts., 8120 Euclid Ave., 2 story and basement, brick, steel and concrete, Royalton Twp. $150,000.

O., Lakewood (Cleveland P. O.)—Apartment—J. F. Mullholland, Leader News Bldg., Cleveland, is interested in company being formed and plans 6 story and basement, on lot 150 x 500 ft., brick, steel and concrete, 11834 Edgewater Dr. $1,500,000. Architect not selected.

Ill., Chicago—Apartment—M. Lazar and L. Siegel c/o A. E. Himelblau, archt., 179 West Washington St., having plans prepared 3 story, 125 x 147 ft., rein.-con., brick and steel, Wilson St. and Central Park. $275,000.

Ill., Chicago—Apartment—L. Siegel c/o A. E. Himelblau, archt., 179 West Washington St., having plans prepared 3 story, 150 x 171 ft., rein.-con., brick and steel, Austin and Ontario Sts., $350,000.

Ill., Chicago — College — University of Chicago, 134 South La Salle St., having plans prepared by Coolidge & Hodgdon, archts., 208 South La Salle St., following buildings, 4 story hospital, 3 story library, dispensary, 3 story pathological laboratory and 2 story bond chapel, all rein.-con., steel and Bedford stone, University Ave., Midway. Plaisance and Engleside Sts. Total $2,500,000.

Ill., Chicago—Theatre—Katz & Ohrenstein, c/o C. W. and G. L. Rapp, archts., 190 North State St., associated with J. Fortin, archt., 600 Blue Island Ave., having plans prepared 6 story, 150 x 170 ft. theatre, Madison and Austin Sts. $3,000,000.

Wis., Milwaukee—Apartments—J. Hunholz, 2310 Vliet St., having plans prepared two 4 story and basement, 50 x 100 ft., brick and concrete, plain foundations, Marshall and Biddle Sts. $125,000 each. Private plans.

Wis., Milwaukee—Business—B. E. Nickoll, 109 Wisconsin St., plans 4 story, 100 x 110 ft., brick and concrete addition, 3rd St. and Grand Ave. $200,000. Architect not selected.

Wis., North Milwaukee—High School—Joint School Dist. 17, having preliminary plans prepared by Van Ryn & De Gelleke, archts., 114 Grand Ave., Milwaukee, 2 story and basement, brick, tile and concrete, plain foundation, 36th St. $150,000. E. F. Neumann, clk.

Wis., Racine—Vocational School—Bd. of Industrial Educ. having revised plans prepared by J. M. Matson, archt., 533 Baker Bk., 3 story, 185 x 220 ft., brick, plain foundation. $300,000. Former bids rejected. Noted Sept. 21.

Ia., Ames—Library—State Bd. Educ., State House, Des Moines, having plans prepared by Proudfoot, Bird & Rawson, archts., 810 Hubbell Bldg., Des Moines, rein.-con. and stone, on college campus, here. $400,000. W. H. Gemmell, secy.

Ia., Pella—School—Central College plans building on campus. $175,000. Architect not selected.

Minn., Northfield — Science Hall — St. Olafs College having revised plans prepared by Colilidge & Hodgdon, archts., 208 South La Salle St., Chicago, 2 story, 75 x 125 ft., rein.-con. and brick. $300,000.

Kan., Manhattan—School—Voted $250,000 bond issue for school. C. A. Lanty, city clk.

Kan., Topeka—Office—Kansas Life Insurance Co., 701 Jackson St., having plans prepared by T. W. Williamson & Co., archts., Central Natl. Bank Bldg., office. $150,000.

Mo., Kirksville—High School—Nov. 21, to vote on $190,000 bonds 3 story Junior High School, etc., rein.-con. and brick, plain foundation.

Tex., Austin—College—State Bd. Regents having plans prepared by H. M. Green Co., archts. and engrs., North Texas Bldg., Dallas, 3 story and basement, rein.-con., brick and stone, plain foundation, University Campus. $400,000. L. Stark, Orange, chn. Bd. Regents.

Tex., Breckenridge — Office and Club — Knights of Pythias plan 5 story and basement, 75 x 150 ft. $150,000 bonds sold. Architect not selected.

Tex., Memphis—Court House—**Hall Co.** having plans prepared by C. H. Page & Bros., archts. and engrs., Austin Natl. Bank Bldg., Austin, 3 story and basement. $150,000.

Calif., Marysville — Store, Office and Club—Knights of Columbus, plan 4 story. $200,000. T. Carlin, grand knight. Architect not selected.

Calif., Modesto—Lodge and Office—Native Sons of Golden West, Woodmen or the World, Redmen, and other fraternal organizations will organize hall association to finance construction of 4 story, lodge and office building. $150,000.

Calif., Oakland—Hotel—Lake View Hotel Corp., plans 8 story, 160 x 193 ft., rein.-con., Oak St. opposite Lake Merritt. $1,000,000. H. Barker, Key Route Inn, promoter. M. I. Diggs, Easton Bldg., archt.

Calif., Sacramento — Auditorium — City Council plans auditorium. $150,000. H. W. Funcke, chn.

Calif., Sacramento—Lodge and Club—B. P. O. E. Lodge, 824 J St., plans to purchase 100 x 160 ft. site on 11th and J Sts., and erect lodge and club. $500,000.

Calif., San Francisco—Commercial—Macdonald & Kahn, 130 Montgomery St., having plans prepared two 3 story and basement, 100 x 137 ft. each, rein.-con., 2nd St. near Bryant St. $150,000. Private plans.

Calif., San Francisco — Office — Spring Valley Water Co., 375 Sutter St., having plans prepared by W. Polk & Co., archts., Hobart Bldg., 6 story and basement, rein.-con., West Mason St. between Post and Geary Sts. To exceed $150,000.

Calif., San Jose—Economics—State having plans prepared by G. B. McDougall, state archt., Forum Bldg., Sacramento, 2 story, rein.-con., at State Normal School, here. $180,000.

Calif., Santa Ana — Hospital—A. B. Westell, organizer of Santa Ana Valley Hospital Assn., plans hospital. $200,000.

Que., Montreal—Church—St. Thomas Asquinas Fabrique 124 Convent St., plans 62 x 148 ft., 140 ft. high incl. bell tower, Convent St. $150,000.

Ont., Stratford—School—**Bd. Educ.** plans 3 story and basement, 30 room, rein.-con., brick, steel and stone. $350,000. Architect not selected.

Ont., Toronto — Exhibition — Canadian Natl. Exhibition, King St. E., plans 1 story automobile and truck building, machinery building, etc., concrete, brick and steel, at Exhibition Park. $1,000,000. Architect not selected.

BIDS DESIRED

Mass., Boston—Apartment—Coleman & Gilbert 331 Huntington Ave, receiving bids and open same about Nov. 12, 6 story, rein.-con., wood pile foundation. Gainsborough St. $500,000. F. A. Norcross, 46 Cornhill, archt. Noted Sept. 21.

Mass., Boston—Police Station—Nov. 14, by Public Buildings Dept., City Hall, 10 story, 65 x 90 ft., brick, stone and steel, plain foundation, Sears and Milk Sts. $500,000. J. Purdon, 8 Beacon St., archt. B. Brown, 88 Broad St., engr. Noted Oct. 19.

N. Y., Olean — School—Jan. 2, by Bd. Educ., 2 story, 105 x 168 ft., brick, Main St. $200,000. A. E. Schoenberg, 101 North Union St., archt. Noted Sept. 14.

N. Y., Yonkers—High School—Nov. 24, by Bd. Educ., for Chas. E. Gorton High School, Palisade Ave. and Shonnard Pl. E. A. Fitch, chn.; adv. this issue.

La., Shreveport—Office—March 23, by J. B. Slattery, Shreveport, 16 story and basement, 75 x 150 ft. rein.-con., plain foundation, Texas and Marshall Sts. $1,000,000. Mann & Sterns, A. O. U. W. Bldg., Little Rock, Ark., archts. and engrs. Noted Nov. 2.

Ill., Chicago — Apartment — B. L. Steif, archt., 64 West Randolph St., receiving bids 3 story, 125 x 143 ft., rein.-con., brick and

Buildings (Continued)

steel, Loyola St., for H. Emerman, 4750 Sheridan Rd. $250,000.

O., Cleveland—Apartments—G. A. Grieble, archt., Sloan Bldg., taking bids ten 3 story and basement, 45 x 60 ft., brick and timber, East 73rd St. and Euclid Ave., for Garden Court Realty Co., c/o architect. $300,000.

Ill., Chicago—Apartment—Harris & Jillson, archts., 190 North State St., receiving bids 14 story, 150 x 250 ft., rein.-con., brick and steel apartment, the first unit of 14 story, 150 x 1,000 ft. project which will be built in four units, between Argyle and Ainslee Sts., facing Lake Michigan. Total cost $5,000,000.

Tex., Abilene—Dormitory—Dec. 1, by Bd. Trustees Simmons College, 3 story, 85 x 160 ft., brick and concrete, plain foundation, for Simmons College. $160,000. D. Castle, Abilene, archt. R. O. Jameson, 342 South Rosemont Ave., Dallas, engr.

Calif., Bakersfield — Hospital — Nov. 18, by Supervs. Kern Co., group of buildings for hospital, brick, stone and terra cotta. To exceed $500,000. C. H. Biggar, Bank of Italy Bldg., archt. Noted Sept. 21.

Calif., Oakland—Bank and Office—H. McCullough, supt. of construction, 1641 Allston Way, Berkeley, receiving bids 5 story annex, Shattuck Ave. and Center St., here, for Mercantile Trust Co. $150,000. J. W. Plachek, 2014 Shattuck Ave., Berkeley, archt.

Calif., Visalia—Bank and Office—A. Cuneo, Bank of Italy, Powell and Market Sts., San Francisco, receiving bids 5 story, rein.-con., here. $250,000. R. F. Felchlin Co., Bank of Italy Bldg., Fresno, archt.

BIDS RECEIVED

D. C., Wash.—Showroom and Store—C. W. Semmes (Dodge Bros. agents), 1132 Connecticut Ave., N. W., showroom and store, from F. L. Wagner, 1413 H St. and A. L. Smith Co., Woodward Bldg. Archts. est. $200,000. Noted Feb. 23.

Wis., Oshkosh—School—School Bd. 2 story, brick, tile and concrete, plain foundation, Punhoqua School, from L. F. Schroeder Co., 13 East 1st St., Fond du Lac, $156,121; Fluor Bros. Constr. Co., 52 State St., $157,440; A. Nielson Constr. Co., Neenah, $158,173. Noted Oct. 12.

Ia., Des Moines—Hospital—Polk Co. Hospital Assn., opened bids Oct. 31, 2 story and basement, rein.-con., brick, tile and stone, Prospect Rd. and Hickman St., from Sugarman Constr. Co., 8th and Tuttle Sts., $137,214; J. E. Tusant & Son, 330 3rd St., S. W., $139,448; W. F. Kucharo & Co., 622 Hubbell Bldg., $147,949.

Ia., Dubuque—Convent—Sisters of St. Francis, St. Marys Convent, 69 Emmett St., 4 story and basement, 56 x 170 x 288 ft. rein.-con., brick, tile and stone, from P. Steenberg Constr. Co., 535 Endicott Bldg., St. Paul, Minn., $304,416; J. A. McDonald Constr. Co., 752 Builders Exch. Bldg., Minneapolis, Minn., $310,365; Colwell-Long Co., 251 6th Ave. S., Minneapolis, Minn., $318,834. Noted Oct. 19.

CONTRACTS AWARDED

Mass., Boston—Apartment—Beacon Court Trust Co., c/o C. J. Warren, archt., 185 Devonshire St., 9 story, 80 x 120 ft., brick, stone and concrete, wood pile foundation, 1440 Beacon St., to H. D. Watts Co., Garrett Bldg., Baltimore, Md., $1,200,000.

N. Y., Brooklyn—Office—Brooklyn Edison Co., 360 Pearl St., 12 story, brick, steel and stone, plain foundation, Willoughby and Pearl Sts., to Cauldwell-Wingate Co., 381 4th Ave. Archts. est. $1,000,000. Noted Oct. 12.

N. Y., New York—Apartment—M. Brown, care C. E. Cullen, archt. and engr., 101 Park Ave., will build 14 story, 75 x 100 ft., brick, steel and stone, plain foundation, 7th Ave. and 54th St., by day labor.

N. Y., New York—Apartment—C. T. Moore, care P. C. Hunter, archt. and engr., 191 9th Ave., 6 story, 85 x 100 ft., brick, steel and stone, plain foundation, 8th Ave. and 22nd St., by day labor. $250,000.

N. Y., New York—Apartment—Tremont Ave. Building Corp., c/o C. Schaefer, Jr., archt. and engr., 394 East 150th St., 6 story, 100 x 100 ft., brick, steel and stone, plain foundation, Crotona Ave., by day labor. $200,000.

N. Y., New York — Apartments — West 190th St. Corp., c/o Meisner & Uffner, archts. and engrs., 501 East Tremont Ave., two 6 story, 80 x 100 ft. and 75 x 100 ft., Grant Ave. $350,000; 6 story, 75 x 105 ft., Rochambeau Ave and Gun Hill Rd., $150,000 all brick, steel and stone, plain foundations, by day labor. M. Gellman, pres.

N. Y., New York—Office—Estate of E. Charles, care Severance & Van Alen, archts. and engrs., 372 Lexington Ave., 6 story, 45 x 100 ft., brick, steel and stone, plain foundation, Madison Ave. and 43rd St., by day labor. $150,000.

Pa., Stroudsburg—Bank Stroudsburg Natl. Bank general contract, altering and building 3 story addition Main St., to Willis-Egelhoff Co., 101 Park Ave., New York, City. Archts. est. $150,000.

D. C., Wash.—Auditorium—Washington Auditorium Bldg., Comn., care R. N. Harper, chn., 1406 G St., N.W., general contract masonry and superstructure, for steel fireproof auditorium, 19th St. between E. St. and New York Ave., to Parsons & Hyman, Wash. (street address not available) $451,700; steel to Lehigh Structural Steel Co., Real Estate Trust Bldg., $104,000; erection to J. McDonald & Co., Bond Bldg., $30,000. Noted May 11.

Ala., Montgomery—Office—W. L. Shepherd, Exch. Natl. Bank Bldg., 8 story and basement, rein.-con., Moulton and Montgomery Sts., to Huggar Bros., Bell Bldg. Archts. est. $275,000.

Tenn., Nashville — Apartment — Glenn Court Realty Co. general contract 3 story, 24 apartments, garages and servants' houses, concrete, brick and steel, to G. B. Howard Co., 139 4th Ave. N., $200,000. Noted Oct. 19.

O., Brookville—School—Bd. Educ. general contract 2 story and basement, 95 x 218 ft., rein.-con. and brick, plain foundation, to L. Colvin, 16th and Meridian Sts., Indianapolis, Ind., $166,174. Noted Oct. 12.

O., Logan—High School—B. Bright, clk. Bd. Educ., 2 story and basement, 106 x 136 ft., brick and concrete, to J. S. Isabel, Bexley (Columbus, P. O.), $127,830. Noted Oct. 26.

Mich., Detroit—Church—Third Church of Christ Scientist, c/o G. D. Mason & Co., archts., 508 Griswold St., 2 story, 110 x 130 ft. rein.-con., brick, steel and stone, plain foundation, 2nd Ave., to Walbridge-Aldinger Co., 2356 Penobscot Bldg., $200,000.

Mich., Hamtramck — (Detroit, P. O.) — Parish House—St. Ladislaus Parish, 3 story, 110 x 170 ft. rein.-con., brick and steel, plain foundation, Jos. Campau Ave., to J. Finn & Son, 7720 Plymouth Rd., Detroit. Archts. est. $200,000.

Ill. Chicago—Apartment—H. McLennan, c/o Fugard & Knapp, archts., 64 East Van Buren St., 12 story, Delaware Ave. and De Witt Pl., to McLennan Co., c/o Wrigley Bldg., $1,100,000.

Ill., Chicago—Apartment—H. Zisook, 4451 Vincennes Ave., 3 story, 122 x 132 ft., rein.-con., brick and steel, 5453-63 Everett St., to Rune & Son, 6142 Rhodes Ave. Archts. est. $200,000.

Mo., Kansas City—Apartment—C. O. Jones, 308 Commerce Bldg., 11 story and basement, 48 x 126 ft., rein.-con. and brick, 911 Holmes St., by day labor. $500,000. Owner taking bids on sub contracts. E. O. Brostrom, 621 Reliance Bldg., archt.

Mo., Marshall—High School—Bd. Educ., 3 story, 150 x 152 ft., rein.-con., brick, stone and terra cotta, to G. H. Gassman, Arkansas City, Kan., $213754. Noted Sept. 28.

Mo., St. Joseph—Business W. F. Kirkpatrick, 8th and Felix Sts., general contract 4 story and basement, 116 x 120 ft., rein.-con., brick and stone, 7th and Francis Sts., to Lawhorn Constr. Co., 905 Edmond St., $145,470.

Okla., Tulsa — Bank — Exchange Natl. Bank, 3rd and Boston Sts., will build 13 story and basement, 75 x 90 ft., rein.-con., steel, granite and brick, by day labor. $1,500,000. Structural steel to Kansas City Structural Steel Co., 21st and Metropolitan Aves., Kansas City, Kan.; granite to Clark & Co., Rockwell, Minn.; face brick to Lumberman Supply Co., 806 American Natl. Bldg., Oklahoma City. Noted Oct. 19.

Calif., Sacramento—Library, etc.—State Dept. Pub. Wks., constructing library, court and office buildings, carpentry and mill work, to Reilly & Nemetz, 180 Jessie St., San Francisco, $166,200; mechanical equipment, to Latourette-Fical Co., 907 Front St., $90,000; metal furring, lathing and plastering and imitation stone, to P. Bradley, 180 Jessie St., San Francisco, $169,800; sheet metal work and skylights, to Forderer Cornice Wks., 269 Potrero Ave., San Francisco, $32,740; glass and glazing, to W. P. Fuller Co., 1016 2nd St., $28,842; interior stone work, to Bruner Marble Co., Marsh-Strong Bldg., Los Angeles, $34,100; marble, mosiac and terrazzo work, to American Marble Co., 25 Columbia Sq., San Francisco, $222,400. Noted Oct. 19.

Calif., San Francisco — Loft — Cebrian Estate, c/o G. A. Applegarth, archt., Claus Spreckels Bldg., 4 story and basement, rein.-con., Fremont and Mission Sts., to P. J. Walker Co., Monadnock Bldg., $225,000. Noted Nov. 2.

Que., Montreal—Clubhouse—Knights of Columbus of Montreal Dist., 5 story, 85 x 140 ft., incl. two assembly halls, 25 x 75 ft. swimming tank, Mountain St., to J. Quinlan & Co., 1165 Greene Ave., $254,000.

Federal Government Work

PROPOSED WORK

Mass., South Boston (Boston P. O.)—Extension—Spec. 4753—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans extension Naval dry dock, here.

O., Fairfield (Dayton P. O.)—Aviation Field—Director Air Service, U. S. Army, Wash., D. C., plans aviation, experimental and flying field, here.

Tex., Liberty—Channel Improvements—Dist. Engineer, Galveston, making plans channel improvements from here to mouth of Trinity River.

Wash., Puget Sound—Fuse and Detonator House—Spec. 4750—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans fuse and detonator house, here.

BIDS DESIRED

Pa., Pittsburgh—Steel Hull—Dec. 1 at office U. S. Engineer, 1 steel dipper dredge hull; adv. this issue.

Md., Edgewood—Quarters—Nov. 15 at office Constructing Quartermaster, Edgewood Arsenal, for 20 sets officers quarters; adv. this issue.

Va., Cape Henry—Power Houses—Dec. 4 at office U. S. Engineer, Norfolk, power houses incl. wells, tanks, etc. at Ft. Story, here; adv. this issue.

Mo., St. Louis—Remodeling—Nov. 27 by Treas. Dept., Wash., D. C., remodeling second floor, etc., U. S. Custom House, here. J. A. Wetmore, acting superv. archt.

BIDS RECEIVED

R. I., Providence—Dredging—U. S. Engineer, Providence, maintenance dredging in Milford Harbor, Conn., 41,200 cu. yd. from J. S. Packard Dredging Co., 1004 Turks Head Bldg., $0.253 per cu. yd.; Bridgeport Dredge and Dock Co., 1024 Main St., Bridgeport, Conn., $0.2725; L. E. Dodge, 30 Church St., New York City, $0.3875. Noted Oct. 5.

N. Y., Buffalo—Superstructure—U. S. Engineer, Federal Bldg., stone and concrete superstructure on breakwater in harbor, here, from Amer. Constr. Co., Marion Bldg., Cleveland, O., $447,609; Greiling Bros. Co., 100 Blk. East Walnut St., Green Bay, Wis., $480,096; Empire Eng. Co., River Rd. and East Ave., North Tonawanda, $524,058. Noted Oct. 5.

Md., Annapolis—Deferrization Plant, etc.—Spec. 4682—Bureau Yards & Docks, Navy Dept., Wash., D. C., deferrization plant for radio station at Naval Academy, here, from H. E. Crook Co., 28 Light St., Baltimore, $13,750 (120 days); D. M. Andrew Co., Sisson and 26th Sts., Baltimore $13,900 (120 days); Bean Bros., 210 Prince St. $14,067 (120 days) alternate add $450. Noted Oct. 19.

Va., Yorktown—Standpipe, etc.—Spec. 4609—Bureau Yards & Docks, Navy Dept., Wash., D. C., standpipe and piping at Navy Mine Depot, here, from Penn Bridge Co., Beaver Falls, Pa., $29,480 (150 days); Newport Contg. and Eng. Co., Law Bldg., Newport News, $30,319 (150 days); Pittsburgh-Des Moines Steel Co., 959 Munsey Bldg., Wash., D. C., $34,500 (140 days). Noted Oct. 19.

Calif., Richmond—Repairing Superstructure, etc.—U. S. Engineer, Custom House, San Francisco, repairing and reshaping existing superstructure, placing 9,000 ton rock riprap, building 80 ft. revetment, 8,000 yds. dredging, here, from Healy-Tibbitts Constr. Co., 9 Main St., San Francisco, dredging $0.90 per cu.yd., riprap $9 per ton, alternate for riprap 10% dirt $1.90 per ton; Daniel Contg. Co., Cunard Bldg., San Francisco, dredging $1 per cu.yd., riprap $3.20 per ton. Noted Oct. 26.

CONTRACTS AWARDED

N. Y., New York—Laundry—Treas. Dept., Wash., D. C., for construction incl. mechanical equipment, laundry building, for U. S. Veterans Hospital, Bronx, here, to Niewenhous Co., Inc., Park Ave. and 161st St. Noted Oct. 12.

FEDERAL POWER COMMISSION

Applications for Licenses and Permits

Applications

349—Alabama Interstate Power Co., Attalla, Ala.—Wants preliminary permit for 4 dams on Tallapoosa River in Elmore, Tallapoosa and Randolph Counties.

350—F. I. Reed, Anchorage, Alaska — Wants preliminary permit for power development in Eklutna River, near Alaskan Railroad, near Matanuska.

SEWERAGE SYSTEM—DOVER, N. J.

Bids were opened Oct. 23, by Bd. Aldermen and Bd. Sewerage, Municipal Bldg., for installing sewerage system. (A) C. F. Goeringer Constr. Co., 51 S. Washington St., Wilkes-Barre, Pa.; (B) C. Ippolito, 252 Main St., Orange; (C) Interstate Constr. Co., 52 Van Riper Ave., Jersey City; (D) J. Sigretto, Bernardsville. The unit bids were as follows:

	Vitrified Tile				Concrete Pipe			
	A	B	C	D	A	B	C	D
38,540 lin.ft. 8-in., 0-6	$1.73	$1.35	$1.63	$2.17	$1.68	$1.25	$1.66	$2.07
66,880 lin.ft. 8-in., 6-8	1.90	1.95	1.93	2.67	1.85	1.85	1.86	2.56
12,960 lin.ft. 8-in., 8-10	2.10	3.00	2.45	3.16	2.05	2.90	2.38	3.05
1,195 lin.ft. 8-in., 10-12	2.70	4.39	3.50	3.68	2.65	4.29	3.43	3.57
320 lin.ft. 8-in., 12-14	3.50	5.06	4.00	4.16	3.45	4.96	3.93	4.05
115 lin.ft. 8-in., 14-16	4.40	7.74	6.00	4.70	4.35	7.64	5.93	4.59
20 lin.ft. 8-in., 16-18	5.45	9.53	10.70	5.19	5.40	9.43	10.63	5.08
3,800 lin.ft. 10-in., 0-6	2.10	1.67	1.82	2.37	2.00	1.57	1.72	2.24
3,650 lin.ft. 10-in., 6-8	2.30	2.35	2.31	2.88	2.20	2.25	2.21	2.75
970 lin.ft. 10 in., 8-10	2.55	3.26	3.85	3.37	2.45	3.16	3.75	3.24
200 lin.ft. 10 in., 10-12	3.20	4.27	5.25	3.89	3.10	4.17	5.15	3.76
160 lin.ft. 10 in., 12-14	4.00	6.84	7.50	4.37	3.90	6.14	7.40	4.24
20 lin.ft. 10 in., 14-16	4.90	8.07	10.00	4.91	4.80	7.97	9.90	4.78
10 lin.ft. 12 in., 0-6	2.45	1.90	3.00	2.54	2.33	1.80	2.87	2.38
110 lin.ft. 12 in., 6-8	2.65	2.43	3.50	3.05	2.53	2.33	3.37	2.89
620 lin.ft. 12 in., 8-10	2.95	3.39	5.00	3.54	2.83	3.29	4.87	3.38
150 lin.ft. 12 in., 10-12	3.60	4.43	7.00	4.06	3.48	4.33	6.87	3.90
20 lin.ft. 12 in., 12-14	4.40	6.46	9.00	4.53	4.28	6.36	8.87	4.37
10 lin.ft. 15 in., 0-6	2.85	2.53	3.55	3.67	2.60	2.33	3.20	3.60
710 lin.ft. 15 in., 6-8	3.10	3.23	4.00	4.38	2.85	3.03	3.65	4.31
1,280 lin.ft. 15 in., 8-10	3.45	4.05	5.00	5.04	3.20	3.85	4.65	4.97
200 lin.ft. 15 in., 10-12	4.10	5.42	7.00	5.75	3.85	5.22	6.65	5.68
30 lin.ft. 15 in., 12-14	4.90	6.33	9.50	6.44	4.65	6.13	9.15	6.37
10 lin.ft. 15 in., 14-16	5.90	7.96	11.00	7.15	5.65	7.76	10.65	7.08
10 lin.ft. 18-in., 0-6	3.50	3.43	4.55	4.19	3.10	3.15	3.98	4.18
590 lin.ft. 18 in., 6-8	3.90	4.22	5.20	4.88	3.50	4.02	4.63	4.87
1,360 lin.ft. 18 in., 8-10	4.65	4.91	6.50	5.56	4.25	4.71	5.93	5.55
30 lin.ft. 18 in., 10-12	5.95	6.02	8.00	6.26	5.55	5.82	7.43	6.25
10 lin.ft. 20 in., 0-6	4.25	3.79	6.40	4.46	3.75	3.59	5.45	5.45
10 lin.ft. 20 in., 6-8	4.60	4.74	7.25	5.16	4.10	4.54	6.30	5.25
580 lin.ft. 20 in., 8-10	5.40	5.37	8.60	5.83	4.90	5.17	7.65	5.92
30 lin.ft. 20 in., 10-12	6.75	6.13	10.00	6.54	6.25	5.93	9.05	6.63
10 lin.ft. 20 in., 12-14	8.25	9.01	12.00	7.24	7.75	8.81	11.05	7.33
32 tons cast iron pipe	90.00	200.00	150.00	100.00	.....	.....	.....	.....
600 manholes, 8 ft.	95.00	75.00	75.00	100.00	.....	.....	.....	.....
100 manholes, ext. depth	9.00	18.00	10.00	.01	.....	.....	.....	.....
200 M.B.M. lumber sheet	50.00	65.00	75.00	80.00	.....	.....	.....	.....
50 M.B.M. lumber foundation	60.00	75.00	75.00	80.00	.....	.....	.....	.....
50 cu.yd. concrete A 1:3:5	16.00	20.00	15.00	14.00	.....	.....	.....	.....
50 cu.yd. concrete B 1:2:4	18.00	25.00	18.00	15.00	.....	.....	.....	.....
12,000 cu.yd. rock excavation	3.50	6.00	5.00	4.00	.....	.....	.....	.....
30 cu.yd. extra excavation	2.50	4.00	3.50	2.50	.....	.....	.....	.....
200 5 in. deep house	1.10	3.50	7.50	10.00	.....	.....	.....	.....
1,000 5 in. house connections	1.35	2.50	.50	1.50	.....	.....	.....	.....
Extended totals, vitrified pipe	$388,164	$421,881	$422,262	$498,801	.....	.....	.....	.....
Extended totals, concrete pipe	.....	.....	.....	.....	$379,497	$407,933	$410,338	$484,574

Federal Power Commission (Continued)

351—A. P. Gray, Alta Vista Hotel, Pueblo, Colo.—Wants preliminary permit for 3 power projects at headwaters of South Colony Creek in Santa Isabela Natl. Forest, Custer Co.

352—Idaho Power Co., 7th and Bannock Sts., Boise, Idaho—Wants license for transmission line from American Falls to Pocatello.

353—Home Power Co., Skagway, Alaska—Wants preliminary permit small development on North Fork Skagway River, 5 mi. from Skagway.

354—R. W. Morrison, Chemical Bldg., St. Louis, Mo.—Wants preliminary permit for dam 30 ft. high in Rio Grande in Webb Co., Tex.

355—M. C. Seagrave, 593 Market St., San Francisco, Calif.—Wants preliminary permit combined power and irrigation project incl. dam and reservoir on headwaters North Fork Consumnes River and 5 mi. canal to power house on same stream.

356—Dept. Pub. Service, 207 South Bway., Los Angeles, Calif.—Wants license for power plant in Haiwee Narrows, 2 mi. below Haiwee Reservoir on Los Angeles Aqueduct, Inyo Co.

Miscellaneous

PROPOSED WORK

Grain Elevator—Baltimore, Md.—Baltimore & Ohio R.R. plans steel concrete elevator, 3,000,000 bu. capacity, Locust Point, to replace those destroyed by fire. H. A. Lane, ch. engr. J. S. Metcalf Co., 108 South LaSalle St., Chicago, archts.

Coaling Station, etc.—Richmond, Va.—Richmond Fredericksburg & Potomac R.R. Co., Broad St., plans coaling station and locomotive terminal in Acca yards. $900,000. Bids now on excavation. S. B. Rice, engr. M. W.

Stadium—Lincoln, Neb.—State having preliminary plans prepared by Davis & Wilson, archts., 575 Security Mutual Bldg., stadium, 40,000 seating capacity. $450,000. Noted May 4.

Electrification of Railways—Ontario—G. Lee, chn. Temiskaming & Northern Ontario Ry., North Bay, submitted report to Premier Drury, recommending electrification of 253 mi. main line and 40 mi. branch lines, incl. trolley line, transmission lines, bonding, substations, electric locomotives, and possible hydro electric generating stations. $9,000,000. S. B. Clement, North Bay, ch. engr.

Hydro Electric Development—Waneta, B. C.—See "Dam."

BIDS DESIRED

Heating and Ventilating Apparatus, etc.—Brooklyn, N. Y.—Nov. 16, by Superintendent Bd. Educ., 500 Park Ave., New York, heating, ventilating and temperature regulation apparatus in Thomas Jefferson High School, here. $125,000. C. B. J. Snyder, Concord St. and Flatbush Ave. extension, engr.

Asphaltic Wearing Surface Sand—New York, N. Y.—Nov. 15, by J. Miller, pres. Manhattan Boro, Municipal Bldg., furnishing and delivering 2,000 cu.yd. asphaltic wearing surface sand. $2,000.

Broken Trap Rock Stone, etc.—New York, N. Y.—Nov. 14, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., furnishing and delivering 4,000 cu.yd. broken trap rock stone and 2,000 cu.yd. broken trap rock stone screenings. Former bids rejected. Noted Nov. 2.

Cement, Fire Clay, etc.—Phila., Pa.—Nov. 13, by J. Armstrong, purch. agt., 10,000 bbl. portland cement in cotton sacks, $25,000; 200 bags fire clay, 25 bbl. high temperature cement, 3,000 fire clay bricks.

Underpasses, etc.—North Carolina—Nov. 21, by State Hy. Comn., Raleigh, grading 2 underpasses and building sub-structures under Southern R.R. at Gibsonville and Four Mile Siding, State Project 532, Guilford Co., 12,800 cu.yd. excav., 1,790 sq.yd. 2 in. asphaltic paving on 5 in. concrete, 1,160 cu.yd. concrete. $33,400. C. M. Upham, state highway engr. Noted Nov. 2.

Sprinkler System—Aberdeen, Wash.—Nov. 14, by Port of Grays Harbor, furnishing and installing automatic sprinkler system in Port Transit Shed. F. H. Lamb, pres.; adv. this issue.

Transmission Line—Spokane, Wash.—Jan. 1, by Washington Water Power Co., 825 Trenton St., having surveys made extending transmission line to connect with Okanogan, incl. 36 mi. 60,000 volt transmission line from Coulee City to Chelan Falls and 18 mi. 60,000 volt transmission line from Chelan Falls to Pateros. $100,000. A. Greisser, Spokane (street address not available) engr.

Fire Service Pipe and Valves—Toronto, Ont.—Nov. 14, by C. A. Maguire, mayor, high pressure fire service, 20 in. c.i. pipe, 12 and 20 in. stop valves, 20 in. check valves, five 24 in. stop valves and one 24 in. check valve. $30,000 to $40,000. R. C. Harris, city engr.

BIDS RECEIVED

Dock Wall, etc.—Buffalo, N. Y.—Commissioner Pub. Wks., Municipal Bldg., opened bids Nov. 2 (1) crib and concrete wall (2) low landing dock (3) rein.-con. bridged walk, from Great Lakes Dredge & Dock Co., Morgan Bldg., (1) $97,000 (2) $9,000 (3) $13,000; Cleveland Eng. Constr. Co., The Arcade, Cleveland, O., (1) $132,275 (2) $12,500; Empire Eng. Co., Inc., North Tonawanda (1) $135,468 (3) $10,257; G. Parks & Sons, Inc., 217 15th St., (2) $8,850. Noted Oct. 26.

Concrete Pipe—Delhi, Calif.—Division of Land Settlement, (State of California), laying 68 mi. of 8 to 18 in. concrete pipe, from T. Cogo, Fresno, (street address not available) $33,138; Merced Concrete Pipe Co., Merced, $37,748; J. Kristich, Knightsen, $39,625. Prices do not include construction of trenches. Noted Oct. 19.

CONTRACTS AWARDED

Coarse Aggregate—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., furnishing and delivering 1,000 cu.yd. coarse aggregate for concrete, to Rosoff Sand & Gravel Corp., 152 West 42nd St., $2,900. Noted Oct. 26.

Rip Rap—New York, N. Y.—Bd. Purch., Municipal Bldg., furnishing and delivering rip rap, to O'Brien Bros., 80 South St., $5,000. Noted Nov. 2.

Wire Mesh Fences—New York, N. Y.—Park Bd., Municipal Bldg., furnishing and erecting wire mesh fences around certain lawns in various city parks in Manhattan Boro, to Riverdale Constr. Co., 1440 Bway. $79,340. Noted Nov. 2.

Cranes—Apollo, Pa.—A. McCarthy, purch. agt. for Apollo Steel Co., Warren Ave., taking bids two 15 ton cranes.

Crane—Bridgeville, Pa.—Universal Steel Co. taking bids one 10-ton crane.

Cranes—Freedom, Pa.—W. C. Phelps, purch agt. for Pennsylvania R.R., Union Sta., Pittsburgh, taking bids two cranes for Conway shop, here.

Road Equipment—Illinois—Nov. 15, by Dept. Pub. Wks. and Buildings, Div. Purchases and Supplies, Springfield, for 27 portable heating kettles, 32 graders, etc. H. H. Kohn, supt.; adv. this issue.

Transmission Line—Dallas Tex.—Dallas Power & Light Co., Interurban Bldg., will build power line from Jackson St. substation to main plant on Griffin St., completing loop system, by day labor. $53,000. J. Oram, care Owner, engr.

Grandstand—Tanforan, Calif.—G. A. Applegarth, archt. Claus Spreckels Bldg., San Francisco, receiving bids steel frame and wood grandstand, 5,000 seats, here, for Pacific Coast Jockey Club, 1st Natl. Bank Bldg., San Francisco. H. Spreckels, secy. $80,000.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

OFFICIAL PROPOSALS

Bids: Nov. 15.

Installing Water Pipe

Albany, N. Y.

Sealed proposals for the installation of a water pipe for Sing Sing Prison, Ossining, N. Y., will be received by the undersigned at his office in the Capitol, Albany, N. Y., until twelve o'clock noon on Wednesday, November 15, 1922, when they will be publicly opened and read. Proposals shall be on the form furnished by the Superintendent of Prisons and shall be accompanied by a draft or certified check payable at sight to the Superintendent of Prisons for ten per centum (10 per cent) of the amount of the proposal. The Engineer's preliminary estimated cost of the work is $17,505.

Each proposal must be addressed to the Superintendent of Prisons, Capitol, Albany, N. Y., and on the outside of the envelope must be clearly and conspicuously written: "Sealed Proposal for Water Pipe Installation at Sing Sing."

The bidder whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds the certified check will be returned to the proposer unless the same has been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Prisons. The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Superintendent of Prisons which sum shall not be less than twenty per centum (20 per cent) of the estimated cost of the work according to the contract price, and an additional bond, known as the Labor Bond, in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work according to the contract price will be required as surety that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

Plans, sheets one and two, may be seen and detail specifications, engineer's estimate of quantities, proposal blanks, form of contract and form of bond required and other information for proposers may be had at the office of the Superintendent of Prisons, Capitol, Albany, N. Y.; at the offices of the State Engineer and Surveyor, Telephone Building, Albany, N. Y.; Barge Canal Terminal Building, Pier 6, East River, New York City; Barge Canal Terminal Building, Foot of Genesee Street, Buffalo, N. Y.; Weighlock Building, Syracuse, N. Y., and the Barge Canal Terminal Building, Canal Harbor, Rochester, N. Y.

Copies of detail plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of thirty cents (30c), to cover the cost of producing the blue prints.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Prisons of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract if in the judgment of the undersigned the interests of the State will be enhanced thereby.

CHAS. F. RATTIGAN,
Superintendent of Prisons.

Dated: October 26, 1922.

OFFICIAL PROPOSALS

Bids: Nov. 28.

Highway Bridges

Little Rock, Ark.

Sealed bids will be received until Ten A.M. of Tuesday, November 28th, 1922 at the offices of the Board of Commissioners of Pulaski Road Improvement District Number Ten, for the construction of four bridge structures on Section Three.

The approximate quantities are as follows:

Structural Steel	375,000 lbs.
Reinforcing Steel	96,000 lbs.
Concrete	1,050 Cu. Yds.

All proposals or bids must be accompanied by a certified check drawn on a responsible bank or trust company in the city of Little Rock.

Certified check must be made payable to H. S. Turner, Secretary of Pulaski Road Improvement District Number Ten, for a sum not less than five per cent of the aggregate amount of the proposal.

Specifications and additional information may be secured from the Engineer.

The successful bidder will be required to furnish satisfactory surety construction bond in a sum equaling the amounts of the contracts awarded him.

The right is reserved to reject any, or all, proposals submitted and to waive informalities.

ROY L. THOMPSON, Chairman.
H. S. TURNER, Secretary,
216 Gazette Building,
Little Rock, Ark.
D. A. MacCREA, Chief Engineer.

Bids: Nov. 21.

Lumber

Trenton, N. J.

Notice is hereby given that sealed bids will be received by the State Highway Commission of New Jersey for the following:

Furnishing of 487,400 feet B.M. of lumber for use on the Ocean City-Somers Point Bridge; delivery to be made f.o.b. cars at the railroad siding in Ocean City.

Bids will be received at the office of the State Highway Commission, Broad Street Bank Bldg., Trenton, New Jersey, on Tuesday, November 21st, 1922, at 11:00 a.m., and opened and read immediately thereafter.

Specifications for the lumber and conditions governing bids may be obtained upon application to Mr. A. W. Muir, Superintendent of Maintenance, State Highway Department, Broad Street Bank Bldg., Trenton, New Jersey. Bids must be made upon the standard proposal form in the manner designated therein and as required by the specifications and conditions governing bids, same to be enclosed in sealed special addressed envelopes which will be furnished with the proposal form bearing the name and address of the bidder and the name of the bridge on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00 nor more than $20,000 and be delivered at the above place on or before the hour named.

The State Highway Commission reserves the right to reject any or all bids not in accordance with the conditions governing said bids.

By order of the State Highway Commission.

A. LEE GROVER, Chief Clerk.

OFFICIAL PROPOSALS

Bids: Nov. 21.

Highway Work

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock p.m. on Tuesday, November 21, 1922, for the improvement of highways in the following counties:

CHAUTAUQUA .....(one highway: 4.25)
COLUMBIA.....(one highway: 4.27)
NASSAU.....(one highway: 0.24)
ORANGE.....(one highway: 1.89)
SARATOGA.....(one highway: 1.33)
SUFFOLK.....(one highway: 0.24)
OTSEGO.....(one highway: 7.24)
WAYNE.....(one highway: 2.24)

Also for the reconstruction of the following:

MONTGOMERY.....(two contracts: 1.56 & 2.50)
ONONDAGA.....(one contract: 2.04)
ORANGE.....(two contracts: 1.43 & 1.74)
TOMPKINS.....(one contract: 1.99)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the division engineers in whose division the roads are to be improved or reconstructed. The addresses of the division engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

HERBERT S. SISSON,
Commissioner.

J. C. FINCH,
Secretary.

Bids: Nov. 20.

Cast Iron Water Pipe

Springfield, Mass.

Sealed proposals will be received by the Board of Water Commissioners of Springfield, Mass., at its office in the Municipal Building, on or before 11 a.m., Monday, November 20, 1922, for the furnishing of cast iron water pipe and special castings.

The proposal shall state price per ton of 2,000 lbs., F.o.b. Armory Station, Springfield, Mass., for each size of pipe and each size and kind of special casting, in accordance with the following schedule.

200	lengths	Class	E	6"	cast iron pipe
2,000	"	"	E	8"	" " "
250	"	"	E	10"	" " "
100	"	"	E	12"	" " "
10	8" Crosses, B. B., Class H				
5	10" x 8" Crosses, B. B., Class H				
6	6" x 4" Reducers, Class H., B. & S.				
50	6" Sleeves, Class H				
50	8" Sleeves, Class H				
10	10" Sleeves, Class H				
15	8" Tees, B. B., Class H				
10	10" x 8" Tees, B. B., Class H				
1	12" Y, B. & S., Class H				

All pipe and special castings to be manufactured in accordance with N. E. W. W. A. specifications.

Proposal shall be in a sealed envelope marked "Proposal for Cast Iron Pipe." It shall also contain a statement as to the dates and rate of delivery for the pipe and special castings.

The right is reserved to eliminate any size from the proposal or to accept the proposal for any sizes without the acceptance of the entire bid. The right is also reserved to reject any or all bids or to accept any bid or any portion of any bid which it may be deemed to the interest of the City of Springfield so to do.

H. M. KING, Superintendent.
Springfield, Mass.
October 27, 1922.

OFFICIAL PROPOSALS

Bids: Nov. 21.

Road Grading

Newton, N. J.

Notice is hereby given that sealed bids will be received by The County of Sussex for grading of Fredon Stillwater Road in the Township of Fredon and the County of Sussex. Estimated amount of excavation required is 34,865 cu.yd. and opened and read in public at the Freeholders Office, Newton, N. J., on November 21, 1922, at 11:30 a.m.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by Harvey Snook, County Engineer, and approved by the State Highway Commission, have been filed in the office of the said engineer at Newton, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the Engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and addres of bidder and name of road on the outside, addressed to The County of Sussex, Newton, N. J., and must be accompanied by a Surety Company Certificate and a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to Engineer.

By order of The County of Sussex.
(Signed) WILLIAM S. VOUGHT, Clerk.

Bids: Dec. 11.

Labor-Material Percentage Contract

New Orleans, La.

Sealed proposals will be received at the Sewerage and Water Board, Room 401, No. 526 Carondelet Street, New Orleans, La., up to 12 o'clock noon of Monday, December 11th, 1922, on Labor-Material Percentage Contract for year 1923.

Specifications and blank forms of proposal may be obtained at the office of the Board.

The right is reserved to reject any or all bids.

October 12th, 1922.

A. G. MOFFAT,
Secretary.

GEO. G. EARL,
General Superintendent.

Bids: Nov. 29.

Filtration Plant and Reservoir

San Juan, Porto Rico.

Sealed proposals for the furnishing of all labor and material for the construction of a 8,000,000 gals. filtration plant and a 10,500,000 gals. filtered water concrete reservoir for the City of San Juan will be received in the office of the Commissioner of Public Service until November 29, 1922, at 10 A.M.

All plans, specifications, instruction to bidders, blanks, forms for proposals and all other information may be obtained at the office of the City Commissioner of Public Works at San Juan, Porto Rico.

The right is reserved to reject any and all bids.

MARTIN TRAVIESO,
Commissioner of Public Service.

Bids: Nov. 14.

Automatic Sprinkler System

Aberdeen, Wash.

The Port of Grays Harbor, Aberdeen, Wash., will receive bids until 10 o'clock A.M., Tuesday, November 14th, 1922, for furnishing and installing an automatic sprinkler system in the Port Transit Shed. Approximately 366 heads required.

Further information on application.

FRANK H. LAMB, President,
J. A. VANCE, Secretary.

The more I see of the way some contractors allow their Contract Bond and Compensation Insurance to be manhandled the more I realize that Barnum was right.

SWART
92 William St., New York

OFFICIAL PROPOSALS

Bids: Nov. 15.

Concrete and Steel Bridges

Trenton, N. J.

Notice is hereby given that sealed bids will be received by the State Highway Commission of New Jersey for the following:

Construction of concrete and steel bridge of two 45'0" spans and 30'0" roadway at M.P. 23.8 over North Branch of Raritan River, Route No. 16, in the Municipalities of Bridgewater and Bedminister, County of Somerset.

Bids for the above will be received at the office of the State Highway Commission, Broad St. Bank Bldg., Trenton, N. J., on November 15, 1922, at 11:00 A.M., and opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond form for the proposed work are on file in the office of Mr. John L. Vogel, Bridge Engineer, 772 Broad St., Newark, N. J., and may be inspected by prospective bidders. Plans will be furnished on deposit of ten ($10.00) Dollars, for doing this work upon application to Mr. John L. Vogel, Bridge Engineer, 772 Broad St., Newark, N. J. Bids must be made on the standard proposal form in the manner designated therein and as required by the specifications for this work; same to be enclosed in sealed special addressed envelopes, bearing the name and address of bidder and the work bid upon on the outside, and must be accompanied by a certified check drawn to the order of the State Treasurer for not less than ten (10%) per cent of the amount of the bid, provided the said certified check shall not be less than $500.00 nor more than $20,000 and be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelope will be furnished on application to Mr. John L. Vogel, Bridge Engineer, 772 Broad St., Newark, N. J. Bids not enclosed in special envelopes will be considered informal and will not be opened.

Each bidder must accompany his bid with a certificate from a Surety Company duly authorized to do business in this State, stating that such Surety Company will provide said bidder with a bond in such sum as is required in and in accordance with the specifications, conditioned for the faithful performance of the provisions of the contract and specifications.

By order of the State Highway Commission.

A. LEE GROVER, Chief Clerk.

Bids: Nov. 27.

Hard Surfaced Road Project

Washington, N. C.

Sealed proposals will be received by the Beaufort County Road Commission at its office in Washington, N. C. until 2 p.m. November 27th, 1922 for the Construction of two sections of road on the Chocowinity-Aurora Road. One section starting at Chocowinity and extending 4.8 miles towards Aurora; one section at Edwards beisg 2 miles in length.

Bids are desired on asphalt and concrete paving 18 feet wide. The total estimated approximate quantities are; 71,800 sq.yds. of sheet asphalt, asphalt concrete or concrete paving.

452 sq.yds. gravel or water bound macadam paving 34,895 cu.yds. excavation.

3 culverts, containing 54 cu.yds. concrete and 4250 lbs. steel.

2 bridges, containing 706 cu.yds. concrete; 69,240 lbs. steel & 3200 feet of piling.

210 ft. 18 in. pipe.
30 ft. 30 in. pipe.
150 ft. 15 in. pipe.

Proposals must be marked "Proposal for Chocowinity-Aurora Road."

All bids must be upon blank forms provided in the Proposal, Contract and Specifications.

Each bid must be accompanied by a certified check for $10,000, or satisfactory Bidder's Bond as evidence of good faith. Bidders bidding on any part of the work separately must accompany their bid by a certified check or satisfactory bidder's bond for an amount equal to 5% of the amount of their bid.

Plans and specifications will be on file at the office of the Commission, in Washington, N. C. and copies of the plans, specifications, form of proposal, etc. will be mailed upon the applicant making a deposit of $5.00 one half of which will be returned upon the return of the plans in good condition as stated in the specifications.

The right is reserved to reject any or all bids.

F. C. Kugler, Chairman,
J. D. BULLUCK, Secretary.
H. W. RANKIN, Engineer.

OFFICIAL PROPOSALS

Bids: Nov. 23.

Bridge and Road Work

Richmond, Va.

Bids will be received at the Office of the Virginia State Highway Commission, Corner 10th & Marshall Streets, Richmond, Va., until 12 o'clock noon, Thursday, November 23rd, for the construction of:

1.—PROJECT S-102, Route 8, Repairs to Bridge over Piscataway Creek, in Essex County, involving approximately 2,640 Lin. Ft. Piles, 16,000 Ft. Lumber.

2.—PROJECT S-216, Route 7Y, from Washington's Old Home, to the intersection with Route 7, 1.74 miles of 20' Gravel roadway involving approximately 7.49 acres clearing and grubbing; 6,621 Cu.Yds. Unclassified excavation; 328 Lin.Ft. Pipe; 21.56 Cu.Yds. Class "B" Concrete.

3.—PROJECT S-185, Route 7, from Wilderness to Lignum, 8.44 miles of soil roadway, involving approximately 38,100 Cu.Yds. unclassified excavation; 556 Lin.Ft. Pipe; 111 Cu.Yds. Class "B" Concrete; 185 Cu.Yds. Class "A" Concrete; 14,500 Lbs. reinforcing steel; 2,100 Lin.Ft. Standard wooden Guard rail.

4.—PROJECTS S-215 A & B, Route 13—(A) Bridge over Appomatox River in Prince Edward County. Length: 292' 10". Roadway 19 Ft. involving approximately 282.6 Cu.Yds. Class "A" Concrete; 475 Cu.Yds. Cement Rubble masonry; 41,700 Lbs. reinforcing steel; 112,000 Lbs. structural steel. (B) APPROACHES to Bridge, involving approximately 33,178 Cu.Yds. borrow excavation, 3,614.4 Sq.Yds. of 7" x 18' concrete roadway; 2,256 Lin.Ft. wooden guard rail.

5.—PROJECT F-76A, Route 10—(A) Bridge over Buffalo Creek in Prince Edward County. Length 228 feet. 19 ft. roadway, involving approximately 376.3 Cu. Yds. Class "A" Concrete; 63,760 Lbs. reinforcing steel; 1,280 Lin.Ft. Piles. (B) APPROACHES to bridge, involving approximately 8,500 Cu.Yds. of borrow excavation.

6.—PROJECT F-160A, Route 5, Franklin to Carrsville in Nansemond and Isle of Wight Counties, 5.5 miles, 18 feet, 6"-8"-6" deep, concrete roadway, involving approximately 7.0 acres clearing and grubbing; 19,765 Cu.Yds. unclassified excavation; 25,-900 Cu.Yds. borrow excavation; 135 Cu.Yds. Class "B" Concrete; 102 Cu.Yds. Class "A" Concrete; 768 Lin.Ft. standard wooden guard rail.

A certified check or bidders bond must accompany each bid. Amount of certified checks, as follows: Project S-216, $650.00; Project S-185, $3,000.00; Project S-102, $250.00; Project S-215, Bridge and approaches, $2,500.00; Project F-76A, $750.00; Project F-160A; $5,000.00. Amount of bidders bond 20% in excess of certified checks.

Plans and specifications are on file at the office of the Virginia State Highway Commission, Corner 10th & Marshall Streets, Richmond, and at the offices of the following District Engineers: Projects S-216 and S-102, Fredericksburg, Va.; S-215, Lynchburg; F-76A, Richmond; S-185, Manassas; F-160A, Suffolk. Additional plans for bidders for the above projects can be obtained upon application to the State Highway Commissioner, upon receipt of $5.00, payable to the Assistant Commissioner, $2.50 of which will be refunded when plans are returned in good condition within two weeks after bids are opened. Plans for the bridges can be secured from W. F. Hobart, 805½ E. Franklin St., Richmond, upon payment of 36c. each. Specifications and bidding proposals may be obtained by request from the Office of the State Highway Commissioner.

Engineers will be at the following places to show prospective bidders over the Projects:

Project S-216—Monday, November 13th, Office of the District Engineer, Fredericksburg, Va., at 10 a.m.

Project S-185—10 A.M. Tuesday, November 14th, at Hotel Waverly, Culpeper, Va.

Projects S-215 and F-76A—10 A.M. Thursday, November 16th, at Prince Edward Hotel, Farmville, Va.

Project F-160A—8 A.M. at Office of District Engineer, at Suffolk, Va.

Project S-102—1 P.M. Friday, November 10th, at the Monumental Hotel, Tappahannock, Va.

The State Highway Commission reserves the right to reject any or all bids.

STATE HIGHWAY COMMISSION
H. G. SHIRLEY,
Chairman.

G. P. COLEMAN,
Commissioner.
November 3, 1922.

OFFICIAL PROPOSALS

Bids: Nov. 28.

Draw Bridge

Cambridge, Mass.

Sealed proposals will be received at this office until 12 o'clock noon of Tuesday, Nov. 28, 1922, for furnishing and erecting a single leaf movable draw span for the First Street Bridge over Broad Canal in Cambridge, Mass.

The draw span will be of trunnion bascule type, according to plans of the Strauss Bascule Bridge Company, and will be about 51½ ft. long and about 54 ft. wide with two main plate girders, overhead counterweight and electric motors and operating machinery complete.

The draw bridge will be erected on foundation now being constructed under another contract.

Plans and specifications may be examined after Wednesday, Nov. 15, 1922, and any further information may be obtained at the office of the City Engineer. Copies of the plans and specifications may be obtained of the City Engineer by the payment of ten ($10.00) dollars, which will be repaid to any one returning the plans and specifications in good order to the office of the City Engineer, Cambridge, Mass.

All bids must be upon the form furnished and must state price both in writing and in figures, and must be signed by the bidder with full name and address. Each bid is to be accompanied by a properly certified check for five hundred ($500.00) dollars, payable to the city of Cambridge, said check to be returned to the bidder, unless forfeited as specified below.

A satisfactory bond will be required for the faithful performance of the contract. The person or persons to whom the contract may be awarded will be required to appear at the office of the City Engineer with the sureties offered by him or them and execute the contract within four days (not including Sunday) from the date of notification of such award, and the preparation and readiness for signature of the contract; and in case of failure or neglect to do so, he or they will be considered as having abandoned it, and the check accompanying the proposal shall be forfeited to the city of Cambridge. The City Engineer reserves the right to reject any and all bids in accordance with and as provided by the City Ordinances. It is understood that the parties in presenting their proposals thereby agree that the same are offered subject to the terms, conditions and limitations hereinbefore specified.

Proposals to be addressed to the City Engineer and endorsed "Proposal for furnishing and erecting movable draw span of the First Street Bridge over Broad Canal, Cambridge, Mass.

L. M. HASTINGS,
City Engineer.

Cambridge, Mass., November 6, 1922.

Bids: Dec. 1.

Cast Iron Pipe

CONTRACT 17,
BALDWIN FAIRMONT PROJECT

Cleveland, Ohio.

Sealed proposals will be received at the Office of Commissioner of Purchases and Supplies, Room 219, City Hall, until 12 o'clock noon, official Cleveland time, December 1, 1922, for furnishing and laying about 2,700 tons of 48-inch and 36-inch cast-iron pipe and other miscellaneous work for the Division of Water, and will be opened and read in the Council Chamber immediately thereafter.

Each bid must be accompanied by a certified check on a solvent bank for two thousand five hundred dollars ($2,500) drawn, payable to the City of Cleveland as surety for the acceptance of the contract. Each bid must be made in accordance with the plans and specifications which may be obtained at the Division of Water, Drafting Room 213, City Hall, upon the deposit of five dollars ($5.00) per set. Said deposit to be redeemed upon the return of said copies in good condition. No proposal will be entertained unless made on blank forms furnished by the Division of Water and delivered at the Office of the Commissioner of Purchases and Supplies previous to 12 o'clock noon on the day above specified.

The city reserves the right to reject any or all bids.

CLEVELAND WATER DEPT.
A. V. RUGGLES,
Commissioner of Water.

OFFICIAL PROPOSALS

Bids: Dec. 1.

Cast Iron Pipe and Castings

San Juan, Porto Rico.

Sealed proposals for the furnishing of about 20,020 tons of cast iron pipe and of 250 tons of special castings, or its equivalent in steel pipe and specials, delivered at San Juan, Porto Rico, for the City of San Juan, will be received in the office of the Commissioner of Public Service until December 1, 1922, at 10 a.m.

All plans, specifications, instruction to bidders, blanks, forms for proposals and all other information may be obtained at the office of the City Commissioner of Public Works at San Juan, Porto Rico.

The right is reserved to reject any and all bids.

MARTIN TRAVIESO,
Commissioner of Public Service.

Bids: Nov. 11.

Road Work Equipment

Springfield, Ill.

Sealed proposals for the following machinery for the State of Illinois Department of Public Works and Buildings, Division of Purchases and Supplies, Division of Highways, will be received by the undersigned until ten o'clock a.m. November 15, 1922:

Twenty-seven Portable Heating Kettles.
Thirty-two Graders.
Forty-four Road Drags.

Full information will be furnished upon application to the undersigned.

The right is reserved to reject any and all bids.

Department of Public Works and Buildings.
C. R. MILLER, Director.
Division of Purchases and Supplies.
H. H. KOHN, Superintendent.
November 1st, 1922.

OFFICIAL PROPOSALS

Bids: Nov. 21.

Storm Water Culvert

New Smyrna, Fla.

Sealed bids will be received by the City Commission of New Smyrna, Florida, at 11 o'clock, Tuesday, the 21st day of November, 1922, at the office of the City Manager at the City Hall, for the construction of a flume or storm water culvert, to be located along the north side of Canal Street where the present open canal is located between Myrtle Street and the river just east of Hillsborough Street.

The length of the structure to be constructed is approximately 3,000 ft. and 9 ft. wide, and the principal items of work are as follows:

2,500 sq.yds. reinforced concrete slabs.
1,400 cu.yds. concrete walls.

An alternate design provides for a circular storm water culvert 7 feet in diameter to be built of plain concrete.

Plans and specifications will be on file at the office of the City Manager at the City Hall in New Smyrna on or after noon the 14th day of November, 1922.

Cash or certified check for $2,500.00 made payable to the city of New Smyrna, Florida, must accompany each bid as evidence of good faith and as a guarantee that if awarded the contract, the bidder will execute the contract and give bond as required.

Each bidder will be required to furnish with his bid a letter from a surety company, licensed to do business in Florida, stating that the surety company will furnish the bond required in case the bidder is successful in securing the contract. Bond will be required in the sum of 25 per cent. of the total estimate of cost.

The right is reserved to reject any or all bids. P. P. PILCHER, City Manager.

Sealed Bids will be Received by the

BOARD OF ESTIMATE AND APPORTIONMENT CITY OF NEW YORK

at its meeting room in the Council Chamber, Room 16, City Hall, Borough of Manhattan, until 12 o'clock noon on

FRIDAY, NOVEMBER 24, 1922

For the Construction of the Shore Road Shaft in the Borough of Brooklyn for a Freight and Passenger Railroad Tunnel to be Built in the Boroughs of Brooklyn and Richmond and Under New York Bay, New York City.

A statement of the quantities of the various items of work and further information are given in the invitation to bid forming part of the contract. At the above place and time the bids will be publicly opened and read. The award of the contract, if awarded, will be made by the Board as soon thereafter as practicable. The Board reserves the right to reject any and all bids.

A bond in the sum of two hundred thousand dollars ($200,000) will be required for the faithful performance of the contract.

No bid will be received or considered unless accompanied by a certified check upon a National or State bank, or trust company of The City of New York, or a check of such bank or trust company signed by a duly authorized officer thereof, drawn to the order of the Comptroller of The City of New York to the amount of ten thousand dollars ($10,000).

The time allowed for the completion of the work is ten months after notification of the endorsement of the Comptroller's certificate as to the appropriation of funds upon the executed contract.

Pamphlets containing invitation to bid, form of bid, contract and specifications, plans, etc., can be obtained at the office of the Chief Engineer of the Board of Estimate and Apportionment, Room 2700, Municipal Building, Manhattan, for the sum of $5.00 per set which will be refunded upon their return in good condition within thirty (30) days.

For further particulars apply to the office of the Chief Engineer at the above address.

BOARD OF ESTIMATE AND APPORTIONMENT,
JOHN F. HYLAN, Mayor, *Chairman.*

OFFICIAL PROPOSALS

Bids: Nov. 29.

Delaware River Bridge Main Towers Contract No. 6

Philadelphia, Pa.

Sealed proposals for the construction of the two Main Towers of the bridge over the Delaware River connecting the City of Philadelphia, Pa., and the City of Camden, N. J., will be received by the Delaware River Bridge Joint Commission at Room 806, Widener Building, Philadelphia, Pa., until 3:00 o'clock P.M. Eastern Standard Time, November 29, 1922, when they will be publicly opened and read. The contract will be awarded, or all bids rejected, within fourteen days after the bids are opened. The right is reserved to reject any or all bids.

The two piers on which the towers are to be erected are located in the Delaware River near the pier head lines on the Pennsylvania and New Jersey sides of the river at points approximately opposite to Race Street in Philadelphia and Pearl Street in Camden. The work will include the furnishing, fabricating, painting and erecting of the two steel towers complete, with top saddle castings, as shown in the contract drawings, ready to receive the cables. The work comprises approximately 9,500 tons of steelwork, and must be completed within a period of fifteen months.

Bids must be made upon the blank proposal form, which, together with specifications, bond and contract form, and contract drawings, may be obtained after November 8, 1922, at the office of the Joint Commission upon deposit of $25, which deposit will be refunded upon the receipt of bid or upon their return in good condition.

Each proposal must be accompanied by a certified check for seventy-five thousand dollars, drawn upon a national or state bank or trust company having an office either in Philadelphia or Camden, and payable to the Delaware River Bridge Joint Commission, and sureties' consent must be shown. The bidder or bidders to whom the concract is awarded will be required to give bond in the sum of fifty per cent of the amount of the concract.

WILLIAM C. SPROUL, Chairman.
JOSEPH K. COSTELLO, Secretary.
DELAWARE RIVER BRIDGE JOINT COMMISSION

Bids: Nov. 27.

12,000,000 Gallons Pumping Engine

Norfolk, Va.

Sealed proposals will be received at the Office of the Director of Public Works, City of Norfolk, Virginia, until 12:00 o'clock noon on the 27th day of November, 1922, for one 12,000,000 Horizontal, Cross Compound, Crank and Fly Wheel, Condensing Pumping Engine of the double opposed type.

Instructions to Bidders, Form of Proposal, Specifications, Contract and Form of Bond may be inspected, at the Office of the Director of Public Works, Norfolk, Virginia, or at the Office of the Consulting Engineer, Dabney H. Maury, 1445 Monadnock Block, Chicago, Ill., and a complete set of all of the above papers may be obtained by intending bidders either from the Director of Public Works or from the Consulting Engineer, upon application accompanied by a check or Postal Order for Fifteen ($15.00) dollars, payable to B. Gray Tunstall, City Treasurer, which amount will be refunded to the party depositing it on the return of all the foregoing papers in good order.

A certified check on an approved bank either in the City of Norfolk, or in the City of New York, or in the City of Chicago, in the sum of $500.00, and payable to B. Gray Tunstall, City Treasurer, must accompany each bid, subject to the conditions expressed in the Instructions to Bidders and Form of Proposal.

The City of Norfolk reserves the right to reject any or all bids.

WALTER H. TAYLOR, 3rd.
Director of Public Works.

TO SUB-LET
Excavation, Earth and Rock, Grading, etc.
About 85,000 Yards.
New York Highway Contract.
Work to be started immediately.
M-237, Eng. News-Record
10th Ave. at 36th St., New York City.

OFFICIAL PROPOSALS

Bids: Nov. 24.

High School

Yonkers, N. Y.

The Board of Education will receive proposals for the erection of the Charles E. Gorton High School, on Palisade Avenue and Shonnard Place, Yonkers, New York, (excepting Heating, Plumbing and Electrical work).

Plans and specifications will be ready for inspection in the office of the Board of Education in the High School Building, November 3rd. A deposit of $15 for each set taken from the office will be required. Plans may be taken by general contractors only.

Proposals must be made on blank forms which will be furnished at the office of the Board.

The building must be complete in every respect and ready for occupancy December 1st, 1923.

Inasmuch as the work specified is to be devoted to public use, time is of the essence of the contract, and for failure of the contractor to fully complete the same on or before the time specified, the sum of Twenty-five Dollars a day will be deducted from the contract price, as liquidated damages, for each day that shall elapse until the final completion of the contract.

Each proposal must be accompanied by a certified check, payable to the Board of Education for five per cent of the amount of such proposal, which will be retained by the Board until a satisfactory bond is filed and the contract executed. All other checks will be returned to the bidders as soon as the proposals are opened, and the result of the competition declared.

The bidder to whom the contract may be awarded will be required to furnish a security bond for one-quarter of the contract price named in his bid, and a liability policy from companies approved by the Board. Each proposal must be inclosed in a securely sealed envelope, endorsed with the name of the bidder and the work for which the proposal is made, and must be delivered to the Secretary of the Board on or before 5:00 o'clock p.m., Friday, November 24th, 1922.

The Board reserves the right to reject any and all proposals.

EDWARD A. FITCH,
Chairman.
ROSCOE S. CONKLING.
JOHN W. BURKE.
Committee on Architecture and Construction

U. S. GOVERNMENT

PROPOSAL FOR STEEL BARGE—U. S. Engineer Office, Montgomery, Ala. Sealed proposals will be received here until 11 a.m., Dec. 1st, 1922, and then opened, for one 80 ft. x 26 ft. x 5 ft. steel barge. Further information on application.

U. S. ENGINEER OFFICE, HUNTINGTON, W. VA., October 20, 1922. Sealed proposals will be received here until 11 a.m. (Eastern time), November 20, 1922, and then opened, for furnishing and delivering horses and props for Ohio River Dam No. 32. Further information on application.

PROPOSALS FOR LEVEE WORK.—Office of the Secretary, Mississippi River Commission, 1311 International Life Building, St. Louis, Mo.—Sealed proposals will be received here until 11 a.m., Nov. 23, 1922, for constructing about 380,000 cubic yards of earthwork in the Kings Lake Drainage District, Mo. Further information on application.

U. S. ENGINEER OFFICE, Charleston, S. C.—Sealed proposals will be received here until noon, November 25, 1922, and then opened, for dredging western channel and Sampit River, Winyah Bay, S. C. Further information on application.

PROPOSALS FOR 20 OFFICERS' QUARTERS.—Office of the Constructing Quartermaster, Edgewood Arsenal, Md. Sealed proposals will be received in this office until 11:00 a.m., November 15, 1922, and then opened, for the construction of twenty sets of officers' quarters, at Edgewood Arsenal, Md. Plans and specifications may be obtained at this office, upon the deposit of $10.00, which will be refunded upon the return of same in good condition. The right is reserved to accept any or to reject all bids for this project.

U. S. GOVERNMENT

UNITED STATES ENGINEER OFFICE, NORFOLK, VA. Sealed proposals will be received here until 12 M, December 4, 1922, and then opened, for constructing two power houses, with wells, fuel tanks, railroad tracks, etc., Fort Story, Cape Henry, Va. Further information on application.

U. S. ENGINEER OFFICE, PITTSBURGH, PA. Sealed proposals for constructing and delivering one steel dipper dredge hull afloat at Pittsburgh, Pa., will be received at this office until 12 noon (Eastern time), December 1, 1922, and then opened. Information on application.

SEALED PROPOSALS will be received and publicly opened by the Director of the U. S. Veterans Bureau in the office of the Quartermaster General, 2306 Munitions Building, Washington, D. C., at 11:00 A.M., November 14, 1922, for the construction of a 400 bed neuro-psychiatric hospital at Camp Sherman, Chillicothe, Ohio. Work will include construction of twenty-two buildings, built of reinforced concrete and brick, complete with water, lighting, heating and sewer systems, roads and walks. Plans and specifications may be obtained after October 14, upon deposit of $100, from the Quartermaster General, 2312 Munitions Building, Washington, D. C., or from the Constructing Quartermaster, Chillicothe, Ohio. One set of plans and specifications will be on exhibition at each of the following stations: Constructing Quartermaster, 39 Whitehall Street, New York City, Constructing Quartermaster, Scott Field, Belleville, Illinois; Quartermaster Supply Officer, Chicago General Intermediate Depot, 1819 West Pershing Road, Chicago, Illinois.

U. S. ENGINEER OFFICE, PITTSBURGH, PA. Sealed proposals will be received here until 12 noon (Eastern time), November 25, 1922, and then opened, for furnishing and delivering three steel deck barges. Further information on application.

U. S. ENGINEER OFFICE, MILWAUKEE, WIS., Oct. 25, 1922. Sealed proposals will be received here until 2 p.m., Nov. 27, 1922, and then opened, for the construction of one dipper dredge hull and house. Further information on application.

PROPOSALS FOR BOILERS.—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn. Sealed proposals will be received here until 11 a.m., Dec. 2, 1922, and then opened, for furnishing boilers for hydraulic grader No. H.G. 2-1-1-2-23. Further information on application.

PROPOSALS FOR STEEL BARGES.—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn. Sealed proposals will be received here until 11 a.m., Dec. 2, 1922, and then opened, for furnishing six steel barges. Further information on application.

PROPOSALS FOR MACHINERY FOR HYDRAULIC GRADER.—Office, Mississippi iver Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn.—Sealed proposals will be received here until 11 a.m., Dec. 2, 1922, and then opened, for furnishing turbines, pumps, feed-water heater, boiler-feed pumps, and electric-light plant. Further information on application.

PROPOSALS FOR LEVEE WORK. — Office of the Secretary, Mississippi River Commission, 1311 International Life Building, St. Louis, Mo.—Sealed proposals will be received here until 11 a.m., Nov. 23, 1922, for constructing about 170,000 cubic yards of earthwork by the hydraulic method in Sub-District No. 1 of Drainage Union District No. 1, Ill. Further information on application.

U. S. ENGINEER OFFICE, JACKSONVILLE, FLA.—Sealed proposals will be received here until 12 m., Nov. 27, 1922, and then opened, for dredging in Key West Harbor, Fla. Further information on application.

U. S. ENGINEER OFFICE, PITTSBURGH, PA. Sealed proposals will be received here until 12 noon (Eastern time) November 20, 1922, and then opened, for furnishing and delivering one steel derrick boat hull. Further information on application.

SEARCHLIGHT SECTION

EMPLOYMENT—BUSINESS OPPORTUNITIES

Positions Wanted, 4 cents a word, minimum charge 75 cents an insertion.
Positions Vacant and all other classifications, 8 cents a word, minimum $2.

Box Numbers in care of any of our offices count as 10 words in addition to advertising copy. *Replies* are forwarded each day as received at all of our offices without additional charge. *Discount* of 10% is allowed if one payment is made in advance for 4 consecutive insertions.

THE ABOVE RATES ARE FOR ADVERTISEMENTS SET UNDISPLAYED. FOR DISPLAY RATES SEE "EQUIPMENT" HEADING.

E. N. R.

POSITIONS VACANT

ASSISTANT general manager for New York building construction company. Salary $4,000 to $6,000, knowledge of estimating, purchasing and experience on high class New York work essential. P-187, Eng. News-Record, 10th Ave. at 36th St., New York.

BOSS Carpenter, and also capable foreman with coffer dam experience for hydro-electric work in South America; both must speak Spanish. P-193, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

CHIEF of Survey Party wanted, experienced on highway location in mountainous country. Technical training preferred, but not required if of long experience. Initial salary $175.00 per month, and field expenses, with excellent opportunities for advancement. In reply state education, experience, and earliest date reporting for duty. State, Box 518, Keyser, W. Va.

COST engineer—The construction department of a large public utility in eastern Pennsylvania has an opening for an experienced cost engineer who is thoroughly experienced in transmission line and power plant construction costs, and who is capable of taking charge of cost keeping and analysis work on large operations. Send record of experience, education, age, salary required, references and small photo with first letter. P-229, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

DRAFTSMEN, civil, structural, mechanical and electrical for cement plant design and detailing. Location Eastern Pennsylvania. State fully nationality, education, experience, salary expected and when available. P-164, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

DRAFTSMAN, experienced, wanted for structural steel buildings; apply by mail only, giving age, nationality, education, experience and salary expected. Post & McCord, 101 Park Ave., New York.

DRAFTSMEN, detailers and checkers on shop detailing for structural steel. Morava Construction Co., 85th and Stewart Ave., Chicago, Ill.

DRAFTSMEN wanted at once. Several structural steel detailers. Men experienced in shop detail drawings for office and apartment house work only need apply. Hedden Iron Construction Co., Hillside, N. J.

EXPERIENCED estimator wanted for structural steel fabricating shop located in the Middle West. P-235, Eng. News-Record, Old Colony Bldg., Chicago, Ill.

ENGINEERING graduate wanted, experienced in design of reinforced concrete buildings, with good knowledge of general building construction, for office work with manufacturer. State age, experience, references and lowest salary in application. Position requires permanent residence Youngstown. Address General Fireproofing Co., Youngstown, Ohio.

ESTIMATOR for building construction general contractors. Experience on high class New York work essential. Salary $3,000 to $4,000. P-188, Eng. News-Record, 10th Ave. at 36th St., New York.

EXPERIENCE bridge foremen wanted for erecting steel highway bridges. State age, experience and give references. P-180, Old Colony Bldg, Chicago, Ill.

EXPERIENCED reinforced concrete carpenter foreman wanted for a hydro-electric power station job, 104 miles from New York. Good accommodations, etc. None but experienced men need apply. P-218, Eng. News-Record, 10th Ave. at 36th St., New York.

Structural Detailers and Checkers

with experience
on shop drawings
for
Steel Fabrication

Bethlehem Steel Co.
Bridge and Fabrication Dept.
Lackawanna Division.
Box No. 991, Buffalo, N. Y.

Construction Men

Learn "Line" and "Grade" by Actual Practice.

Level, Transit, and Plane Table Work. "Running" of Farm, Stadia, Highway and Railroad Surveys.

Estimating

Day and evening courses. Booklet.

The Pan-American Engineering School
39 West 17th St., New York City

WANTED

Designers and Draftsmen

Steel and Reinforced Concrete Draftsmen, experienced in the design of steam power stations, are offered steady employment and exceptional opportunity for advancement.

State age, education, experience, date available and salary expected in first letter and address: "Engineering Department."

STONE & WEBSTER, Inc., 147 Milk St., Boston, Mass.

HIGHER ENGINEERING
(BY MAIL)

Intensive Training for Young Engineers

Reinforced Concrete Engineering
Steel Designing, (Estimating)
Bridges, Steel and Concrete.

Wilson Courses provide the practice that every young engineer so badly needs after he leaves college. They duplicate actual designing just as it is done in first-class structural designing offices. They are **actual experience** work, meant to round out your education. Only high-grade men are enrolled for this work.

Get our free literature, if you are ambitious, and want that **ideal course.**

WILSON ENGINEERING CORPORATION
10 Broadway, Hanover, Mass.